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US-07-649-591B-3
; Sequence 3, Application US/07649591B
; Patent No. 5206161
; GENERAL INFORMATION:
; APPLICANT: Dennis Drayna and Daniel Eaton
; TITLE OF INVENTION: No. 5206161el Plasma Carboxypeptidase
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 5.25 Inch, 360 Kb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: palin (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/649,591B
; FILING DATE: 19910201
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Hasak, Janet E.
; REGISTRATION NUMBER: 28,616
; REFERENCE/DOCKET NUMBER: 689
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415/266-1896
; TELEFAX: 415/952-9881
; TELE: 910/371-7168
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
US-07-649-591B-3

Query Match 94.2%, Score 1799.5; DB 1; Length 423;
Best Local Similarity 89.6%; Pred. No. 7.6e-187;
Matches 343; Conservative 1; Mismatches 2; Indels 37; Gaps 1

QY 1 MKLSLAVLPVPLVECEQHVFAFGSGQVLAALPRTSRQVYQNLNTTTEIYILMOPVTAD 60
Db 1 MKLSLAVLPVPLVECEQHVFAFGSGQVLAALPRTSRQVYQNLNTTTEIYILMOPVTAD 60
QY 61 LIVKKQVHFVNASDVNVNKAHLNVSGIPCSVLLADVEDLLQOQISNDTSPRASASY 120
Db 61 LIVKKQVHFVNASDVNVNKAHLNVSGIPCSVLLADVEDLLQOQISNDTSPRASASY 120
QY 121 EQYHSLNFIYMWIEFITERHPDMLTKIHIGSFEXYPLYLVKVGSKQEQATAKNAIWDGSI 180
Db 121 EQYHSLNFIYMWIEFITERHPDMLTKIHIGSFEXYPLYLVKVGSKQEQATAKNAIWDGSI 180
QY 181 HAREHISAFCLMFGH-----NNMWR 203
Db 181 HAREHISAFCLMFGHIGTITTOFTGIIQYTNLRLVDFYVMPVNVNDGYDYSKKKNMWRK 240
QY 204 NRSEYVANNHCIGTDLNSNFVSKHMCDEGASSSCSEYCGLYPESEPEYKAVASFLLRNI 263
Db 241 NRSEYVANNHCIGTDLNRFASFASKHMCDEGASSSCSEYCGLYPESEPEYKAVASFLLRNI 300
QY 264 NQIKAYISMHSYQHIYPRYSYTRSKSKDHEELSLVASEAVARAIDKTSKNTRYTHGSGE 323
Db 301 NQIKAYISMHSYQHIYPRYSYTRSKSKDHEELSLVASEAVARAIDKTSKNTRYTHGSGE 360
QY 324 TLYLAPGGGDDMIYDLGIKYSFT 346
Db 361 TLYLAPGGGDDMIYDLGIKYSFT 383

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: RESULT 3
: US-08-277-540-3
: Sequence 3, Application US/08277540
: Patent No. 5474901
:
: GENERAL INFORMATION:
: APPLICANT: Drayna, Dennis T., Eaton, Dan L.
: TITLE OF INVENTION: No. 5474901el Plasma Carboxypeptidase
: NUMBER OF SEQUENCES: 8
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Genentech, Inc.
: STREET: 460 Point San Bruno Blvd
: CITY: South San Francisco
: STATE: California
: COUNTRY: USA
: ZIP: 94080
:
: COMPUTER READABLE FORM:
: MEDIUM TYPE: 5.25 inch, 360 kb floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: patin (Genentech)
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/277,540
: FILING DATE: 19-JUL-1994
: CLASSIFICATION: 435
:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/167727
: FILING DATE: 15-DEC-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 07/959944
: FILING DATE: 14-OCT-1992
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 07/649591
: FILING DATE: 01-FEB-91
: ATTORNEY/AGENT INFORMATION:
: NAME: Hasak, Janet E.
: REGISTRATION NUMBER: 28,616
: REFERENCE/DOCKET NUMBER: 688D1C1D1
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415/225-1896
: TELEFAX: 415/952-9881
: TELEX: 910/371-7168
: INFORMATION FOR SEQ ID NO: 3:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 423 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
:
: US-08-277-540-3
:
: Query Match 94.2%; Score 1799.5; DB 1; Length 423;
: Best Local Similarity 89.6%; Pred. No. 7.6e-187;
: Matches 343; Conservative 1; Mismatches 2; Indels 37; Gaps 1;
:
: 1 MKLGLAVLPVLCEQHVEFAFGSGQVLAALPRTSRQVQVQNTLTYYEILMOPVTAD 60
: 1 MKLGLAVLPVLCEQHVEFAFGSGQVLAALPRTSRQVQVQNTLTYYEILMOPVTAD 60
:
: 61 LIVKKQVHFENASADVNVKNAHLNWSGIPCSVLLADVEDLIGQOISNDYSPRASASY 120
: 61 LIVKKQVHFENASADVNVKNAHLNWSGIPCSVLLADVEDLIGQOISNDYSPRASASY 120
:
: 121 EGYHSLNETYSWIEETTERHPDMLRKIHGSSFEKYPILYLVKSGKEOTAKNAVIDGI 180
: 121 EGYHSLNETYSWIEETTERHPDMLRKIHGSSFEKYPILYLVKSGKEOTAKNAVIDGI 180
:
: 181 HAREWISPAFCMLFTGH-----NRMRK 203
: 181 HAREWISPAFCMLFTGH-----NRMRK 203
:
: 204 NRSFPAHHGIGTDLNSNFVSKHMCBEGASSSCSETCGLYPESEPEYKAVASFLRNI 263
: 204 NRSFPAHHGIGTDLNSNFVSKHMCBEGASSSCSETCGLYPESEPEYKAVASFLRNI 263
:
: 241 NKSFPANHHCIGTDLNRFASFAMKMCBEGASSSCSETCGLYPESEPEYKAVASFLRNI 300
: 241 NKSFPANHHCIGTDLNRFASFAMKMCBEGASSSCSETCGLYPESEPEYKAVASFLRNI 300

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QY 61 LIVKKQVHFEVNASDVNKAHLNVSGIPCSVLLADVEDLIQOQISNDTVSPRASASY 120  
DB 61 LIVKKQVHFEVNASDVNKAHLNVSGIPCSVLLADVEDLIQOQISNDTVSPRASASY 120  
QY 121 EOYHSLNEIYSWIEFITERHPDMLTKIHIGSSFEEKYPLYLVKSGKEQTAKNAIWDGCI 180  
DB 121 EOYHSLNEIYSWIEFITERHPDMLTKIHIGSSFEEKYPLYLVKSGKEQTAKNAIWDGCI 180  
QY 181 HAREWISPAFLCMTFIGH-----NRMRK 203  
DB 181 HAREWISPAFLCMTFIGHTTORYGIIGQYTNLRLVDYFVMPVNVNDGYDYSWKKNRMWRK 240  
QY 204 NRSEFYANNHCIGTDLNNSNFVSKHMCCEGASSSCSEYTCGLYPESEPEVKAASFRLRNI 263  
DB 241 NRSEFYANNHCIGTDLNRFASKHMCCEGASSSCSEYTCGLYPESEPEVKAASFRLRNI 300  
QY 264 NOIKAVISMHSYSOHIVFPYSYTRSKSKDHEELSLVASEAVRAIDKTSKNTRYTHGHCSE 323  
DB 301 NOIKAVISMHSYSOHIVFPYSYTRSKSKDHEELSLVASEAVRAIKTSKNTRYTHGHCSE 360  
QY 324 TLVYLAGGGDDMIYDLGIKYSFT 346  
DB 361 TLVYLAGGGDDMIYDLGIKYSFT 383

RESULT 6  
US-09-813-133A-4  
Sequence 4, Application US/09813133A  
Patent No. 6455294  
GENERAL INFORMATION:  
APPLICANT: GAN, Meinlu et al  
TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,  
TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN PROTEASE PROTEINS, AND  
FILE OF INVENTION: US8578007  
FILE REFERENCE: CLO01173  
CURRENT APPLICATION NUMBER: US/09/813,133A  
NUMBER OF SEQ ID NOS: 4  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 4  
LENGTH: 423  
TYPE: PRT  
ORGANISM: Human  
US-09-813-133A-4

Query Match 93.6%; Score 1788.5; DB 4; Length 423;  
Best Local Similarity 89.0%; Pred. No. 1.2e-185;  
Matches 341; Conservative 1; Mismatches 4; Indels 37; Gaps 1;

QY 1 MKICSLAVLPYVIFCQOHVFAFGSGOVLAALPRTSRQOVYLOMLTTTYEIVLMQPYTAD 60  
DB 1 MKICSLAVLPYVIFCQOHVFAFGSGOVLAALPRTSRQOVYLOMLTTTYEIVLMQPYTAD 60  
QY 61 LIVKKQVHFEVNASDVNKAHLNVSGIPCSVLLADVEDLIQOQISNDTVSPRASASY 120  
DB 61 LIVKKQVHFEVNASDVNKAHLNVSGIPCSVLLADVEDLIQOQISNDTVSPRASASY 120  
QY 121 EOYHSLNEIYSWIEFITERHPDMLTKIHIGSSFEEKYPLYLVKSGKEQTAKNAIWDGCI 180  
DB 121 EOYHSLNEIYSWIEFITERHPDMLTKIHIGSSFEEKYPLYLVKSGKEQTAKNAIWDGCI 180  
QY 181 HAREWISPAFLCMTFIGH-----NRMRK 203  
DB 181 HAREWISPAFLCMTFIGHTTORYGIIGQYTNLRLVDYFVMPVNVNDGYDYSWKKNRMWRK 240  
QY 204 NRSEFYANNHCIGTDLNNSNFVSKHMCCEGASSSCSEYTCGLYPESEPEVKAASFRLRNI 263  
DB 241 NRSEFYANNHCIGTDLNRFASKHMCCEGASSSCSEYTCGLYPESEPEVKAASFRLRNI 300  
QY 264 NOIKAVISMHSYSOHIVFPYSYTRSKSKDHEELSLVASEAVRAIDKTSKNTRYTHGHCSE 323  
DB 301 NOIKAVISMHSYSOHIVFPYSYTRSKSKDHEELSLVASEAVRAIKTSKNTRYTHGHCSE 360

QY 324 TLVYLAGGGDDMIYDLGIKYSFT 346  
DB 361 TLVYLAGGGDDMIYDLGIKYSFT 383

RESULT 7  
US-08-696-139-2  
Sequence 2, Application US/08696139  
Patent No. 5672496  
GENERAL INFORMATION:  
APPLICANT: Fayerman, Jeffrey T.  
APPLICANT: Greenen, David P.  
APPLICANT: Hersherberg, Charles L.  
APPLICANT: Larson, Jeffrey L.  
APPLICANT: Steiner, Jane L.  
TITLE OF INVENTION: DNA SEQUENCES ENCODING PORCINE  
TITLE OF INVENTION: PANCREATIC CARBOXYPEPTIDASE B  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Eli Lilly and Company  
STREET: Lilly Corporate Center  
CITY: Indianapolis  
STATE: Indiana  
COUNTRY: United States of America  
ZIP: 46285  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/696,139  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/153,258  
FILING DATE: 16-NOV-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Gaylo, Paul J.  
REGISTRATION NUMBER: 36,808  
REFERENCE/DOCKET NUMBER: X-8681  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (317) 276-0756  
TELEFAX: (317) 276-3861  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 404 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-696-139-2

Query Match 33.5%; Score 640.5; DB 1; Length 404;  
Best Local Similarity 37.7%; Pred. No. 6e-61;  
Matches 136; Conservative 60; Mismatches 122; Indels 43; Gaps 6;

QY 23 FOSGOVLAALPRTSRQOVYLOMLTTTYEIVLMQPYTADLIVKKQVHFEVNASDVNKA 82  
DB 10 FOSGOVLAALPRTSRQOVYLOMLTTTYEIVLMQPYTADLIVKKQVHFEVNASDVNKA 82  
QY 83 HLNVSIGIPCSVLLADVEDLIQOQISNDTVSPRASASYEOYHSLNEIYSWIEFITERHPD 142  
DB 70 FLEQNELOYEVLLNNRSVLEAOFDSRV--RTTGHSEYKYNWETIEAMTKQVTSENDP 126  
QY 143 MLTKIHIGSSFEEKYPLYLVKSGKEQTAKNAIWDGCIHAREWISPAFLCMTF----- 195  
DB 127 LIRTAIGTGLNNTYLLKV-GKPPNPKPAIFMDCGFHAREWISPAFLCMTF----- 185  
QY 196 -----GH-----NRMRKRSFYANNHCIGTDLNNSFVSK 225  
DB 186 GYSHMTPEFLNKDFVYLVNIDGITYTWTKNRMWRKTRSTNAGTTCIGTDPRNF-DA 244



Best Local Similarity 35.68; Pred. No. 9.1e-61;  
Matches 135; Conservative 69; Mismatches 131; Indels 44; Gaps 77.

[illegible]

RESULT 10  
US-09-011-769A-56  
Sequence 56, Application US/09011769A  
Patent No. 6436691  
GENERAL INFORMATION:  
APPLICANT: SLATER, Anthony M.  
BLAKEY, David C.  
DAVIES, David H.  
HENNAM, John F.  
HENNEQUIN, Laurent F.A.  
MARSHAM, Peter R.  
DOWELL, Robert I.  
TITLE OF INVENTION: Chemical Compounds  
NUMBER OF SEQUENCES: 87  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pillsbury Madison & Sutro, LLP  
STREET: 1100 New York Ave., N.W.,  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 1.44 Mb disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: MS Word  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/011.769A  
FILING DATE: 13-Feb-1998  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/CB96/01975  
FILING DATE: 13-AUG-1996  
APPLICATION NUMBER: GB 9612295.7  
FILING DATE: 12-JUN-1996  
APPLICATION NUMBER: GB 9611019.2  
FILING DATE: 25-MAY-1996  
APPLICATION NUMBER: GB 9516810.0  
FILING DATE: 16-AUG-1995  
INFORMATION FOR SEQ ID NO: 56:  
SEQUENCE CHARACTERISTICS:

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;      LENGTH: 424 amino acids
;      TYPE: amino acid
;      TOPOLOGY: linear
;      MOLECULE TYPE: protein
;      SEQUENCE DESCRIPTION: SEQ ID:
US-09-011-769A-56

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Query Match	33.0%;	Score 631.5;	DB 4;	Length 424;
Best Local Similarity	35.7%;	Pred. No. 6.2e-60;		
Matches 129; Conservative	68;	Mismatches 121;	Indels 43;	Gaps 6;

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QY      23  FOSQVLAALPRTSROVUOLNLTTFYEIYLMQVPTADLYKKQVHFNFNASVDVKA  82
Db      29  FEGERVFRVNVNEDENHINIIRELASTYQIDEMKSDYSTQIKRPHSTVDPRKAEDTYI  88
QY      83  HLNVSGLPCSVLLADVEDLIDQOQISNDTVSPRASASYEODYHSLNETYSNIEFTTERHPD  142
Db      89  VLKONELQYKLLINLRNVNADPDSHV---RATGHSEYKKNKMETTEAWTOQVATENPA  145
QY      143  MLTNIHIGSSFEKPLVLYLAKSKGEQAKNANWIDCGIHREWISPAFCIMFT-----  195
Db      146  LISRVSIGTTFEGRAIYLKV-KGAGGNKPAIFMDCGFHREWISPAFCOMFVREAVRTY  204
QY      196  -----GH-----NEMWKNRNSFYANNHCIGTDLNSNVSK  225
Db      205  GREIQTVELLDKDFVLPVLPUNIDGITYTWTKSFEMKRTSTHTGSSCIGTDPNRNF-DA  263
QY      226  HMCEGASSSSCSEYTGCLYPESEPEKAVASFLRRINIIOIKAVISHSYSOHITVPYSY  285
Db      264  GWCELGASRNCCDEYTCGPAAESKEFKETKALADFLRNKLSIKALTLTHSYSOQMIITYSY  323
QY      286  TRRSKDHDELVLVASEAVRAIDKTSKNTRYTHHGSETIYLABGGDDMIYDLGIKYSF  345
Db      324  AYKKGNNNAELNALAKATYKEL-ASLHGTKYTYGPGATFYPAAGSGDDMAWDOGIYRSF  382
QY      346  T  346
Db      383  T  383

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RESULT 11  
US-07-649-591B-7  
Sequence 7, Application US/07649591B  
Patent No. 5206161  
GENERAL INFORMATION:  
APPLICANT: Dennis Drydena and Daniel Paton  
TITLE OF INVENTION: No. 5206161el Plasma Carboxypeptidase  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Genentech, Inc.  
STREET: 460 Point San Bruno Blvd  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 5.25 inch, 360 kb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: patin (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/649,591B  
FILING DATE: 19910701  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Hasak, Janet E.  
REGISTRATION NUMBER: 28,616  
REFERENCE/DOCKET NUMBER: 689  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415/266-1896

TELEFAX: 415/952-9881  
TELEX: 910/371-7168  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 417 amino acids  
TYPE: AMINO ACID  
TOPOLOGY: linear  
US-07-649-591B-7

Query Match 32.9%; Score 628.5; DB 1; Length 417;  
Best Local Similarity 37.0%; Pred. No. 1.3e-59;  
Matches 140; Conservative 60; Mismatches 131; Indels 47; Gaps 8;

QY 6 LAVLVPIVLFCEQHVAFQSGVLAALPRTSRQVOYLQNTTTEYELVMQPTADLIYVK 65  
DB 7 MAVIYTTLAIAPVH---FDEKRYFRVKLQNEKHAASVYKNTLSIEDFWYPAIHDIAYN 63  
QY 66 KOYHFFVNASDVQNVKAHLNVSGIPCSVLLADVEDLIQOQIS-NDTVSPRASASYEYH 124  
DB 64 MYVDFRYSEKESQTIQSTLEQHKIHYEILIHDLQEEIEKQFDVKDELACHS---YAKYN 120  
QY 125 SLNEIYSWIEFTEIRHPDMLTKIHGSSFEKYPYLYLVKSGKQOTAKNAIMWDCGIHARE 184  
DB 121 DMWKIYSWTEKMLEKHPEWVSRIKISTVEDNPLYVYKTI-GKKDGERKALFMDCGIHARE 179  
QY 185 WISPAFLCFMFI-----GHN-----RMRKRRNSF 207  
DB 180 WISPAFCQMFVYQATKSYGKNKIMTKLDRMNFYLPVFNVDGYIMSWQDRMRKRRNSR 239  
QY 208 YANNHCIGTDLNSFNFSKHWCEGASSSCSEYTCGLYPESEPEVKAVASFLRRNIQIK 267  
DB 240 NONSTCIGTDLNNF--DVSDSSPNTNKPCLNRYRGPAPSEKETRAVTFIRSHINSIK 298  
QY 268 AYISMYSQGHIVFPYSYTRSKSKDHEELSLVASEAVRAIDKTSKTRTHGSGSETLYL 327  
DB 299 AYITFHSYSQMLLIPGYTFKLPNNHODLKVARIATDAL-STREYFRYIYGPDIASYIK 357  
QY 328 APGGDDMIYDLGIKYSF 345  
DB 358 TSGSSLDWYVDLGIKHTF 375

RESULT 12  
US-08-277-540-7  
Sequence 7, Application US/08277540  
Patent No. 5474901  
GENERAL INFORMATION:  
APPLICANT: Drayna, Dennis T., Eaton, Dan L.  
TITLE OF INVENTION: No. 5474901el Plasma Carboxypeptidase  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Genentech, Inc.  
STREET: 460 Point San Bruno Blvd  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 5.25 inch, 360 kb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: patin (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/277,540  
FILING DATE: 19-JUL-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/167727  
FILING DATE: 15-DEC-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/959944  
FILING DATE: 14-OCT-1992  
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/649591  
FILING DATE: 01-FEB-91  
ATTORNEY/AGENT INFORMATION:  
NAME: Hasak, Janet E.  
REGISTRATION NUMBER: 28,616  
REFERENCE/DOCKET NUMBER: 689D1C1D1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415/225-1896  
TELEFAX: 415/952-9881  
TELEX: 910/371-7168  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 417 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
US-08-277-540-7

Query Match 32.9%; Score 628.5; DB 1; Length 417;  
Best Local Similarity 37.0%; Pred. No. 1.3e-59;  
Matches 140; Conservative 60; Mismatches 131; Indels 47; Gaps 8;

QY 6 LAVLVPIVLFCEQHVAFQSGVLAALPRTSRQVOYLQNTTTEYELVMQPTADLIYVK 65  
DB 7 MAVIYTTLAIAPVH---FDEKRYFRVKLQNEKHAASVYKNTLSIEDFWYPAIHDIAYN 63  
QY 66 KOYHFFVNASDVQNVKAHLNVSGIPCSVLLADVEDLIQOQIS-NDTVSPRASASYEYH 124  
DB 64 MYVDFRYSEKESQTIQSTLEQHKIHYEILIHDLQEEIEKQFDVKDELACHS---YAKYN 120  
QY 125 SLNEIYSWIEFTEIRHPDMLTKIHGSSFEKYPYLYLVKSGKQOTAKNAIMWDCGIHARE 184  
DB 121 DMWKIYSWTEKMLEKHPEWVSRIKISTVEDNPLYVYKTI-GKKDGERKALFMDCGIHARE 179  
QY 185 WISPAFLCFMFI-----GHN-----RMRKRRNSF 207  
DB 180 WISPAFCQMFVYQATKSYGKNKIMTKLDRMNFYLPVFNVDGYIMSWQDRMRKRRNSR 239  
QY 208 YANNHCIGTDLNSFNFSKHWCEGASSSCSEYTCGLYPESEPEVKAVASFLRRNIQIK 267  
DB 240 NONSTCIGTDLNNF--DVSDSSPNTNKPCLNRYRGPAPSEKETRAVTFIRSHINSIK 298  
QY 268 AYISMYSQGHIVFPYSYTRSKSKDHEELSLVASEAVRAIDKTSKTRTHGSGSETLYL 327  
DB 299 AYITFHSYSQMLLIPGYTFKLPNNHODLKVARIATDAL-STREYFRYIYGPDIASYIK 357  
QY 328 APGGDDMIYDLGIKYSF 345  
DB 358 TSGSSLDWYVDLGIKHTF 375

RESULT 13  
US-08-430-787A-7  
Sequence 7, Application US/08430787A  
Patent No. 5593674  
GENERAL INFORMATION:  
APPLICANT: Drayna, Dennis T., Eaton, Dan L.  
TITLE OF INVENTION: No. 5593674el Plasma Carboxypeptidase  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Genentech, Inc.  
STREET: 460 Point San Bruno Blvd  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 5.25 inch, 360 kb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: patin (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/430,787A  
FILING DATE: 27-APR-1995







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US-07-649-591B-3  
; Sequence 3, Application US/07649591B  
; Patent No. 5206161  
; GENERAL INFORMATION:  
; APPLICANT: Dennis Drayna and Daniel Eaton  
; TITLE OF INVENTION: No. 5206161el Plasma Carboxypeptidase  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Genentech, Inc.  
; STREET: 460 point San Bruno Blvd  
; CITY: South San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94080  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: palin (Genentech)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/649,591B  
; FILING DATE: 19910201  
; CLASSIFICATION: 435  
; PRIORITY APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Hasak, Janet E.  
; REGISTRATION NUMBER: 28,616  
; REFERENCE/DOCKET NUMBER: 689  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415/266-1896  
; TELEFAX: 415/952-9881  
; TELEX: 910/371-7168  
; INFORMATION FOR SEQ. ID NO. 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 423 amino acids  
; TYPE: AMINO ACID  
; TOPOLOGY: linear  
US-07-649-591B-3

Query Match 94.5%; Score 1699.5; DB 1; Length 423;  
Best Local Similarity 89.8%; Pred. No. 1e-174; Indels 37; Gaps 1;  
Matches 324; Conservative 0; Mismatches 0;

QY 1 FOSGOVLALPRTSRQVOVLONTTTEYEIVLMQPTADLIVKKKQVHFVNASDVNVKA 60  
DB 23 FOSGOVLALPRTSRQVOVLONTTTEYEIVLMQPTADLIVKKKQVHFVNASDVNVKA 82

QY 61 HLNVSIGPISVLLADVEDLIQOQISNDTVSPRASASYEYHSLNETYSWIEFITERHPD 120  
DB 83 HLNVSIGPISVLLADVEDLIQOQISNDTVSPRASASYEYHSLNETYSWIEFITERHPD 142

QY 121 MLTKIHIGSSFEKYPILYLVKVSKEQOTAKNAIWDGCIHAREWISPAFCIMFIGH----- 175  
DB 143 MLTKIHIGSSFEKYPILYLVKVSKEQOTAKNAIWDGCIHAREWISPAFCIMFIGHITQFY 202

QY 176 -----NRMKRKSRYANNHCIGTDLNRNFASK 203  
DB 203 GIIGQYTNLLRLVDYVMPVNVNDGYDSMKKRMKRNKNSFYANNHCIGTDLNRNFASK 262

QY 204 HMCCEGASSSCSEYTCGLYPESEPEVKAVASFLRRNINQIKAYISMHSYSGHIPEPYSY 263  
DB 263 HMCCEGASSSCSEYTCGLYPESEPEVKAVASFLRRNINQIKAYISMHSYSGHIPEPYSY 322

QY 264 TRKRSKDHEELSLVASEAVNAIETKSNRPTHGSESTLYLAPGGDDMIYDLGIKYSF 323  
DB 323 TRKRSKDHEELSLVASEAVNAIETKSNRPTHGSESTLYLAPGGDDMIYDLGIKYSF 382

QY 324 T 324  
DB 383 T 383

RESULT 3  
US-08-277-540-3  
; Sequence 3, Application US/08277540  
; Patent No. 5474901  
; GENERAL INFORMATION:  
; APPLICANT: Drayna, Dennis T., Eaton, Dan L.  
; TITLE OF INVENTION: No. 5474901el Plasma Carboxypeptidase  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Genentech, Inc.  
; STREET: 460 point San Bruno Blvd  
; CITY: South San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94080  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: palin (Genentech)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/277,540  
; FILING DATE: 19-JUL-1994  
; CLASSIFICATION: 435  
; PRIORITY APPLICATION NUMBER:  
; FILING DATE:  
; APPLICATION NUMBER: 08/167727  
; FILING DATE: 15-DEC-1993  
; PRIORITY APPLICATION DATA:  
; APPLICATION NUMBER: 07/959944  
; FILING DATE: 14-OCT-1992  
; PRIORITY APPLICATION DATA:  
; APPLICATION NUMBER: 07/649591  
; FILING DATE: 01-FEB-91  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Hasak, Janet E.  
; REGISTRATION NUMBER: 28,616  
; REFERENCE/DOCKET NUMBER: 689D1C1D1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415/225-1896  
; TELEFAX: 415/952-9881  
; TELEX: 910/371-7168  
; INFORMATION FOR SEQ. ID NO. 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 423 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
US-08-277-540-3

Query Match 94.5%; Score 1699.5; DB 1; Length 423;  
Best Local Similarity 89.8%; Pred. No. 1e-174; Indels 37; Gaps 1;  
Matches 324; Conservative 0; Mismatches 0;

QY 1 FOSGOVLALPRTSRQVOVLONTTTEYEIVLMQPTADLIVKKKQVHFVNASDVNVKA 60  
DB 23 FOSGOVLALPRTSRQVOVLONTTTEYEIVLMQPTADLIVKKKQVHFVNASDVNVKA 82

QY 61 HLNVSIGPISVLLADVEDLIQOQISNDTVSPRASASYEYHSLNETYSWIEFITERHPD 120  
DB 83 HLNVSIGPISVLLADVEDLIQOQISNDTVSPRASASYEYHSLNETYSWIEFITERHPD 142

QY 121 MLTKIHIGSSFEKYPILYLVKVSKEQOTAKNAIWDGCIHAREWISPAFCIMFIGH----- 175  
DB 143 MLTKIHIGSSFEKYPILYLVKVSKEQOTAKNAIWDGCIHAREWISPAFCIMFIGHITQFY 202

QY 176 -----NRMKRKSRYANNHCIGTDLNRNFASK 203  
DB 203 GIIGQYTNLLRLVDYVMPVNVNDGYDSMKKRMKRNKNSFYANNHCIGTDLNRNFASK 262

QY 204 HMCCEGASSSCSEYTCGLYPESEPEVKAVASFLRRNINQIKAYISMHSYSGHIPEPYSY 263  
DB 263 HMCCEGASSSCSEYTCGLYPESEPEVKAVASFLRRNINQIKAYISMHSYSGHIPEPYSY 322

OY	264 TRSKSKEELSLVASEAVRAIETKSNRTYTHGHSEELYLAPGGDDMIYDLGIKYSF	323
Dd	323 TRSKSKEELSLVASEAVRAIENTSNNTYTHGHSEELYLAPGGDDMIYDLGIKYSF	382
OY	324 T 324	
Dd	383 T 383	

## RESULT 4

```

US-08-430-787A-3
: Sequence 3, Application US/08430787A
: Patent No. 5593674
:
: GENERAL INFORMATION:
: APPLICANT: Drayna, Dennis T., Eaton, Dan L.
: TITLE OF INVENTION: No. 5593674el Plasma Carboxypeptidase
: NUMBER OF SEQUENCES: 8
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Genentech, Inc.
: STREET: 460 Point San Bruno Blvd
: CITY: South San Francisco
: STATE: California
: COUNTRY: USA
: ZIP: 94080
:
: COMPUTER READABLE FORM:
: MEDIUM TYPE: 5.25 inch, 360 kb floppy disk
:
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patin (Genentech)
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/430,787A
: FILING DATE: 27-APR-1995
:
: CLASSIFICATION: 514
:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/277,540
: FILING DATE: 19-JUL-1994
: APPLICATION NUMBER: 08/167727
: FILING DATE: 15-DEC-1993
:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 07/959944
: FILING DATE: 14-OCT-1992.
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 07/649591
: FILING DATE: 01-FEB-91
:
: ATTORNEY/AGENT INFORMATION:
: NAME: Hasak, Janet E.
: REGISTRATION NUMBER: 28,616
: REFERENCE/DOCKET NUMBER: 68961C1D1
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415/225-1896
: TELEFAX: 415/952-9881
:
: TELEX: 910/371-7168
: INFORMATION FOR SEO ID NO: 3:
:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 423 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
:
: US-08-430-787A-3

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Query Match	94.58;	Score 1699.5;	DB 1;	Length 423;
Best Local Similarity	89.88;	Pred. No. 1e-174;		
Matches 324;	Conservative	0;	Mismatches 0;	Indels 37; Gaps 1

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QY      1  FOSQOVLALPRTSROQOVLONLITTYEIVLMOPTVADILVKKKQVHFPMASDVONVA  60
Db      23  FOSQOVLALPRTSROQOVLONLITTYEIVLMOPTVADILVKKKQVHFPMASDVONVA  82
QY      61  HLNANGIPCSYLLADVEDLIQQOISNDTVSPRASASYEODYSLNELYSWIEFITERHPD  120
Db      83  HLNANGIPCSYLLADVEDLIQQOISNDTVSPRASASYEODYSLNELYSWIEFITERHPD  142
QY     121  MLTKIHGSSPEKPLVVLNVSCEQOFAKNAIMIDCSIAHREMTSPAFCLMFIQH-----  175

```

Db	143	MLTHTHIGSSPEKPLVLYLAKSKGEQAKNAIMWDGCIHAREMISPAFLCMLFIGHTIQY	202
QY	176	-----NMFRKNSFANNNHCIGTDLNRFASK	203
Db	203	GIIGQYTNLELYDFYVMPVYVNDGYDYSWKNNMWRKNSRSEFYANNHCIGTDLNRFASK	262
QY	204	HMCEGAGSSSSCSEFTYCGCLYPESEPEPKAAVAFLRNNINOIKATISMHSYQHIYVPYSY	263
Db	263	HMCEGAGSSSSCSEFTYCGCLYPESEPEPKAAVAFLRNNINOIKATISMHSYQHIYVPYSY	322
QY	264	TRRSKSDHEELISLVAEAVRAIEKTSKNTRYTHGSETLYLAFGGDDMYDLDGIRYSF	323
Db	323	TRRSKSDHEELISLVAEAVRAIEKTSKNTRYTHGSETLYLAFGGDDMYDLDGIRYSF	382
QY	324	T 324	
Db	383	T 383	

## RESULT 5

```

US-08-869-057-2
Sequence 2, Application US/08869057
Patent No. 5985562
GENERAL INFORMATION:
APPLICANT: Morser, Michael J
APPLICANT: Nagashima, Mariko
TITLE OF INVENTION: Method of Detecting Thrombotic Disease
TITLE OF INVENTION: Risk
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Berlex Biosciences Legal Department
STREET: 15049 San Pablo Avenue
CITY: Richmond
STATE: California
COUNTRY: USA
ZIP: 94804-0099
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/869,057
FILING DATE: 03-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Washlien, Wendy L
REGISTRATION NUMBER: 36,301
REFERENCE/DOCKET NUMBER: 51509AUSM1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-262-5411
TELEFAX: 510-262-7095
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 423 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
TISSUE TYPE: Plasma
FEATURE:
NAME/KEY: Peptide
LOCATION: 23..401
US-08-869-057-2

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Query Match	94.5%;	Score 1699.5;	DB 2;	Length 423;
Best Local Similarity	89.8%;	Pred. No. 1e-174;		
Matches 324;	Conservative 0;	Mismatches 0;	Indels 37;	Gaps 1

QY 1 FOSGCVLALPRTSRQVQVLQNLTYYEILMQPVADLIYKKKQVHFVNASDVNVKA 600  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Db 23 FQSGCVLALPRTSRQVQVLQNLTYYEILMQPVADLIYKKKQVHFVNASDVNVKA 822



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Db      80 VLKNELOYKVLINLBNVVEAOPDSHV---RATGSHYEKNWETLEANTQOATENPA 136
OY      121 MLTNIHGSSSEKPELVLYKVSCEGOAKNAIMIDCGIHAREMISPAFCMLFI----- 173
          :::: |::|:: |::|:: |::|:: |::|:: |::|:: |::|:: |::|:: |::|::
Db      137 LISRSVIGTFEGRAIYLKV-KGACGNKPATIPDCGFHAREMISPAFCOMFEAVRTY 195
OY      174 -----GH-----NEMWRKNSPYANNHCISTDLNRNPASK 203
          : |::|:: |::|:: |::|:: |::|:: |::|:: |::|:: |::|:: |::|::
Db      196 GRETOVELLDKDFEYLPVALINDIGITYTWTKSRFWKTSTHTSGSCISTDPNRNF-DA 254
OY      204 HMCDEGAASSSSCSETYGCLYPESEPEVKAVASFLRRNIIOIKAVISMSHSOIHLVPESY 263
          |||| |::|:: |::|:: |::|:: |::|:: |::|:: |::|:: |::|:: |::|::
Db      255 GWCIEGASRNCPDCTCYGPAESKEKETALADFRNNLTSSIKAVLTITHYSOSMMITVYSY 314
OY      264 TRSKSKHEELSLVASCAVRAIENTSKNTRYTHIGHGETLYTLAPGGDDMTITDLGITYSF 323
          :::: |::|:: |::|:: |::|:: |::|:: |::|:: |::|:: |::|:: |::|::
Db      315 AYKLGENNVAELNALAKATVREL-ASLHGTRYTGPGATTYPAAAGSDMAWDGIGIRYSF 373
OY      324 T 324
          |
Db      374 T 374

RESULT 9
US-09-011-769A-39
Sequence 39, Application US/09011769A
Patent No. 6436691
GENERAL INFORMATION:
APPLICANT: SLATER, Anthony M.
           BLAKEY, David C.
           DAVIES, David H.
           HENNAM, John F.
           HENNEQUIN, Laurent F.A.
           MARSHAM, Peter R.
           DOWELL, Robert I.
TITLE OF INVENTION: Chemical Compounds
NUMBER OF SEQUENCES: 87
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pillsbury Medison & Sultro, LLP
STREET: 1100 New York Ave., N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: 1.44 Mb disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: MS Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/011.769A
FILING DATE: 13-Feb-1998
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB96/01975
FILING DATE: 13-AUG-1996
APPLICATION NUMBER: GB 9612295.7
FILING DATE: 12-JUN-1996
APPLICATION NUMBER: GB 9611019.2
FILING DATE: 25-MAY-1996
APPLICATION NUMBER: GB 9516810.0
FILING DATE: 16-AUG-1995
INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 415 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 39:
US-09-011-769A-39

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MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 56  
US-09-011-769A-56

Query Match	35.58;	Score 637.5;	DB 4;	Length 424;
Best Local Similarity	35.08;	Score 637.5;	DB 4;	Length 424;

Matches 130; Conservative 68; Mismatches 120; Indels 43; Gaps 6

QY I FQSGQVLALPRTSRQOVNLQNLTTTTEIVLWQPYADLIVKKQVHFEVNASDVNVKA 60

29 FEGEKEVNEDEHNINILIREASTIQLDFFWKPPDSYQIKPHSTVDFRVKAEDIIVEN 88

01 HUNVSGLFCVLEUWDEEDLQVQISNDIVSFRKASASIIEQIHSLNELYSWIEFIITERKHFD 120  
02 - : : |||:: : : | : ||: ||:: | : | : : :  
03 - : : |||:: : : | : ||: ||:: | : | : : :  
04 - : : |||:: : : | : ||: ||:: | : | : : :  
05 - : : |||:: : : | : ||: ||:: | : | : : :

[illegible]

Db 146 TISRVTGTTTGRRAIYI LKV -GAGGONKPAIFMCGGHADEFWTSBAECGQEVBPAAVDPV 304

OY 174 -----GH-----NRMRKNSFYANNHCTGTDI'NRNEASK 203

Db 205 GREIQVELLDKLDYFLPVINIDGYIYTWTKSRFRKTRSTHTGSSCIGDPNRF-DA 263

QY 204 HWCCEGASSSCSETYCGLYPESEPEVKAVASTLRNINQIKATISMHSYQHIVPPSY 263

Db 264 GWCEIGASRNPCDETYCGPAESEKETKALADFI RNKLSIKAYLT IHSYQMMIYPYSY 323

QY 264 TRSKSKDHEELSLVASEAVRAIEKTSKNTRYTHGHGSETLYLAPGGDDWIYDLGIKYSF 323  
::: ||| : | ::| : |

DB 324 AUKGEMNAELNALARAIYKEL-ASLHGTRKTYTGATTIYPACGSDDMAYDQIRYSF 382

[illegible]

RESULT 11  
MS-07-649-591R-7

; Sequence 7, Application US/07649591B  
; Patent No. 5206161

GENERAL INFORMATION:  
APPLICANT: Dennis Drayna and Daniel Eaton

DATE OF INVENTION:	NO. 2200101	PLASMA CATHOLYPTICASE
NUMBER OF SEQUENCES:	8	
SEQUENCE NUMBER:	1	

ADDRESSEE: Genentech, Inc.  
STREET: 460 Point San Bruno Blvd

CITY: South San Francisco  
STATE: California

```

;      COUNTRY: USA
;      ZIP: 94080
;
```

```

COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 kb floppy disk

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OPERATING SYSTEM: PC-DOS/MS-DOS

CURRENT APPLICATION DATA:  
APPLICATION NUMBER, HC/07/640 E01D

FILING DATE: 19910201  
CLASSIFICATION: 435

```

;; PRIOR APPLICATION DATA:
;;
;; APPLICATION NUMBER:

```

ATTORNEY/AGENT INFORMATION:

REGISTRATION NUMBER: 28,616

TELECOMMUNICATION INFORMATION:  
METERPHONE: 415/266-1000





CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/277,540  
FILING DATE: 19-JUL-1994  
APPLICATION NUMBER: 08/167727  
FILING DATE: 15-DEC-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/959944  
FILING DATE: 14-OCT-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/649591  
FILING DATE: 01-FEB-91  
ATTORNEY/AGENT INFORMATION:  
NAME: Hasak, Janet E.  
REGISTRATION NUMBER: 28,616  
REFERENCE/DOCKET NUMBER: 689D1C1D1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415/225-1896  
TELEFAX: 415/952-9881  
TELEX: 910/371-7168  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 417 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
US-08-430-787A-7

Query Match 35.2%; Score 632; DB 1; Length 417;  
Best Local Similarity 38.2%; Pred. No. 1.4e-59;  
Matches 136; Conservative 57; Mismatches 122; Indels 44; Gaps 7;

QY 1 FQSGQVLAALPRTSRQOVLOLNTTTEIYVLMQPTADLIYKKQVHFVNASDVDNVKA 60  
DB 21 FDRKRVFRVVKQNKHSAVYLNKLGSTELDPYDAIHDAVNNTVDFRVSSEKSOIQIS 80  
QY 61 HLANSGIPCSVLADVEDLIQOQIS-NDTVSPRASASYEOYHSLNETYSIEPITERHP 119  
DB 81 TLEQKHITHYELLHLDLDEIEKQFDVDELAGRHS---YAKYNDMDKIVSWTEKMLEKHP 137  
QY 120 DMLTKIHIGSFEEKYPLYLVKVSQKQETAKNAIWDGCIHAREMISPAFCWMEI----- 173  
DB 138 EMVSRKIGTSTVEDNPLYVTKI-GKQGERKALFMDGCIHAREMISPAFCWMEIYQATKS 196  
QY 174 -GHN-----RMWRKRNSFYANNHCIGTDLNRNPFAS 202  
DB 197 YGRNKIMTKLLDRMNFYILPVFNVDGYIWSWTQDRMRKRNSRQNSGTCIGTDLNRNF-D 255  
QY 203 KHNCEGASSSCSEETCGLYPESEPEVKAVASFLRRNINQIKAYISMHSYQHIPEPYS 262  
DB 256 VSMDSPTNPKPLNVYRGAPASEKETKAVTNFIRSHLSIKAVITFHSYSQMLLPYG 315  
QY 263 YTRSKSDHEELSLVASEAVRAIEKTSKNTRYTHGHGSETLYLAPGGGDDMIYDLGIKYS 322  
DB 316 YTRKLPNHDLLKVAIAIADAL-STREYTRYIYGPISITVTKSGSLDMDVLDGIKHT 374  
QY 323 F 323  
DB 375 F 375

RESULT 14  
US-07-649-591B-6  
Sequence 6, Application US/07649591B  
Patent No. 5206161  
GENERAL INFORMATION:  
APPLICANT: Dennis Drayna and Daniel Eaton  
TITLE OF INVENTION: NO. 5206161el Plasma Carboxypeptidase  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Genentech, Inc.  
STREET: 460 Point San Bruno Blvd  
CITY: South San Francisco  
STATE: California

COUNTRY: USA  
ZIP: 94080  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: patin (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/649,591B  
FILING DATE: 19910201  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Hasak, Janet E.  
REGISTRATION NUMBER: 28,616  
REFERENCE/DOCKET NUMBER: 689  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415/266-1896  
TELEFAX: 415/952-9881  
TELEX: 910/371-7168  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 417 amino acids  
TYPE: AMINO ACID  
TOPOLOGY: linear  
US-07-649-591B-6

Query Match 34.6%; Score 622; DB 1; Length 417;  
Best Local Similarity 35.5%; Pred. No. 1.7e-58;  
Matches 128; Conservative 71; Mismatches 118; Indels 44; Gaps 7;

QY 1 FQSGQVLAALPRTSRQOVLOLNTTTEIYVLMQPTADLIYKKQVHFVNASDVDNVKA 60  
DB 21 FDRKRVFRVVKQNKHSAVYLNKLGSTELDPYDAIHDAVNNTVDFRVSSEKSOIQIS 80  
QY 61 HLANSGIPCSVLADVEDLIQOQIS-NDTVSPRASASYEOYHSLNETYSIEPITERHP 119  
DB 81 ALDQNKHITHYELLHLDLDEIEKQFDVDEIPIGRHS---YAKYNNWEKIYAMTKMDKTP 137  
QY 120 DMLTKIHIGSFEEKYPLYLVKVSQKQETAKNAIWDGCIHAREMISPAFCWMEI----- 173  
DB 138 EMVSRKIGTSTVEDNPLYVTKI-GEKNERKALFMDGCIHAREMISPAFCWMEIYQATKS 196  
QY 174 -GHN-----NMWRKRNSFYANNHCIGTDLNRNPFAS 202  
DB 197 YGRNKIMTKLLDRMNFYILPVFNVDGYIWSWTQDRMRKRNSRQNSGTCIGTDLNRNF-N 255  
QY 203 KHNCEGASSSCSEETCGLYPESEPEVKAVASFLRRNINQIKAYISMHSYQHIPEPYS 262  
DB 256 ASMNSIINTDPCADNRCGAPASEKETKAVTNFIRSHLSIKAVITFHSYSQMLLPYG 315  
QY 263 YTRSKSDHEELSLVASEAVRAIEKTSKNTRYTHGHGSETLYLAPGGGDDMIYDLGIKYS 322  
DB 316 YTRKLPNHDLLKVAIAIADAL-STREYTRYIYGPISITVTKSGSLDMDVLDGIKHT 374  
QY 323 F 323  
DB 375 F 375

RESULT 15  
US-08-277-540-6  
Sequence 6, Application US/08277540  
Patent No. 5474901  
GENERAL INFORMATION:  
APPLICANT: Drayna, Dennis T., Eaton, Dan L.  
TITLE OF INVENTION: NO. 5474901el Plasma Carboxypeptidase  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Genentech, Inc.  
STREET: 460 Point San Bruno Blvd



**This Page Blank (uspto)**

GenCore version 5.1.4-p5\_4578  
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## OM protein - protein search, using sw model

Run on: May 12, 2003, 08:48:58 ; Search time 9.38136 Seconds  
(Without alignments)  
771.534 Million cell updates/sec

Title: US-09-980-881a-4  
Perfect score: 1338  
Sequence: 1 ASASYEQYHSLNIEYSWIE.....IKYFTSNPVEKILPLSLK 246

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :  
1: Issued\_Patents\_AA:\*  
2: /cgn2\_6/ptodata/1/1aa/5A\_COMB.pep.\*  
3: /cgn2\_6/ptodata/1/1aa/5B\_COMB.pep.\*  
4: /cgn2\_6/ptodata/1/1aa/6A\_COMB.pep.\*  
5: /cgn2\_6/ptodata/1/1aa/6B\_COMB.pep.\*  
6: /cgn2\_6/ptodata/1/1aa/BACKLITest1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1257	93.9	386	US-09-813-133A-2	Sequence 2, Appli
2	1239.5	92.6	423	US-07-649-591B-3	Sequence 3, Appli
3	1239.5	92.6	423	US-08-277-540-3	Sequence 3, Appli
4	1239.5	92.6	423	US-08-430-787A-3	Sequence 3, Appli
5	1239.5	92.6	423	US-08-869-057-2	Sequence 2, Appli
6	1228.5	91.8	423	US-09-813-133A-4	Sequence 4, Appli
7	610	45.6	307	US-08-782-760-6	Sequence 6, Appli
8	610	45.6	307	PCT-US96-00995-6	Sequence 6, Appli
9	582	43.5	306	US-08-696-139-4	Sequence 4, Appli
10	582	43.5	404	US-08-696-139-2	Sequence 2, Appli
11	567	42.4	329	US-09-011-769A-51	Sequence 51, Appli
12	567	42.4	349	US-09-011-769A-47	Sequence 47, Appli
13	567	42.4	415	US-08-860-882A-57	Sequence 57, Appli
14	567	42.4	415	US-09-011-769A-39	Sequence 39, Appli
15	567	42.4	424	US-09-011-769A-56	Sequence 56, Appli
16	561	41.9	417	US-07-649-591B-7	Sequence 7, Appli
17	561	41.9	417	US-08-277-540-7	Sequence 7, Appli
18	561	41.9	417	US-08-430-787A-7	Sequence 7, Appli
19	560	41.9	349	US-09-011-769A-60	Sequence 60, Appli
20	559	41.8	349	US-09-011-769A-64	Sequence 64, Appli
21	554	41.4	396	US-07-649-591B-4	Sequence 4, Appli
22	554	41.4	396	US-08-277-540-4	Sequence 4, Appli
23	554	41.4	396	US-08-430-787A-4	Sequence 4, Appli
24	552	41.3	417	US-07-649-591B-6	Sequence 6, Appli
25	552	41.3	417	US-08-277-540-6	Sequence 6, Appli
26	552	41.3	417	US-08-430-787A-6	Sequence 6, Appli
27	549	41.0	437	US-09-675-305-10	Sequence 10, Appli

28	549	41.0	613	4	US-09-171-945-113	Sequence 113, App
29	549	41.0	716	4	US-09-171-945-125	Sequence 125, App
30	542	36.8	399	4	US-09-710-099-8	Sequence 8, Appli
31	487.5	36.4	419	1	US-07-649-591B-5	Sequence 5, Appli
32	487.5	36.4	419	1	US-08-277-540-5	Sequence 5, Appli
33	487.5	36.4	419	1	US-08-430-787A-5	Sequence 5, Appli
34	483	36.1	417	1	US-07-649-591B-8	Sequence 8, Appli
35	483	36.1	417	1	US-08-277-540-8	Sequence 8, Appli
36	483	36.1	417	1	US-08-430-787A-8	Sequence 8, Appli
37	471.5	35.2	350	4	US-09-675-305-12	Sequence 12, Appli
38	465.5	34.8	419	4	US-08-640-906-2	Sequence 2, Appli
39	465.5	34.8	419	4	US-09-395-936-2	Sequence 2, Appli
40	465.5	34.8	436	4	US-09-710-099-6	Sequence 6, Appli
41	460.5	34.4	419	4	US-08-640-906-17	Sequence 17, Appli
42	460.5	34.4	419	4	US-09-395-936-17	Sequence 17, Appli
43	459	34.3	417	4	US-08-640-906-4	Sequence 4, Appli
44	459	34.3	417	4	US-09-395-936-4	Sequence 4, Appli
45	458	34.2	417	4	US-08-640-906-18	Sequence 18, Appli

## ALIGNMENTS

```
RESULT 1
US-09-813-133A-2
: Sequence 2, Application US/09813133A
: Patent No. 6455294
: GENERAL INFORMATION:
: APPLICANT: GAN, Weiniu et al
: TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,
: TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN PROTEASE PROTEINS, AND
: FILE REFERENCE: CLO01173
: CURRENT APPLICATION NUMBER: US/09/813,133A
: CURRENT FILING DATE: 2001-06-06
: NUMBER OF SEQ ID NOS: 4
: SOFTWARE: FASTSEQ for Windows Version 4.0
: SEQ ID NO 2
: LENGTH: 386
: TYPE: PRT
: ORGANISM: Human
US-09-813-133A-2

Query Match          93.9%; Score 1257; DB 4; Length 386;
Best Local Similarity 99.1%; Pred. No. 7.4e-129;
Matches 230; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 ASASYEQYHSLNIEYSWIEFTTERHPDMLTKIHIGSSFERYPLVLYKVGSKQOTAKNAI 60
      |||
DB      115 ASASYEQYHSLNIEYSWIEFTTERHPDMLTKIHIGSSFERYPLVLYKVGSKQOTAKNAI 174

QY      61 WIDCIIHAREWISPAFCMLFTHGNMRRKNSFYANNICIGDILNRNFAKSHMCEGASS 120
      |||
DB      175 WIDCIIHAREWISPAFCMLFTHGNMRRKNSFYANNICIGDILNRNFAKSHMCEGASS 234

QY      121 SSCSETTYGLVPESPEPKAVAFLLRNINQIKAVISMSYSQHTVFPYSYTRSKDHE 180
      |||
DB      225 SSCSETTYGLVPESPEPKAVAFLLRNINQIKAVISMSYSQHTVFPYSYTRSKDHE 294

QY      181 ELSLVAEAVRAIEKTSKNTRYTHGSGSETLYLADGGDDWYDGLGIRYSFT 232
      |||
DB      295 ELSLVAEAVRAIEKTSKNTRYTHGSGSETLYLADGGDDWYDGLGIRYSFT 346

RESULT 2
US-07-649-591B-3
: Sequence 3, Application US/07649591B
: Patent No. 5206161
: GENERAL INFORMATION:
: APPLICANT: Dennis Dayna and Daniel Eaton
: TITLE OF INVENTION: NO. 5206161el Plasma Carboxypeptidase
: NUMBER OF SEQUENCES: 8
: CORRESPONDENCE ADDRESS:
```

ADDRESS: Genentech, Inc.  
STREET: 460 Point San Bruno Blvd  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080

COMPUTER READABLE FORM:  
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: patin (genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/649,591B  
FILING DATE: 19910201  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Hasak, Janet E.  
REGISTRATION NUMBER: 28,616  
REFERENCE/DOCKET NUMBER: 689  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415/266-1896  
TELEFAX: 415/952-9881  
TELEX: 910/371-7168  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 423 amino acids  
TYPE: AMINO ACID  
TOPOLOGY: linear  
US-07-649-591B-3

Query Match  
Best Local Similarity 92.6%; Score 1239.5; DB 1; Length 423;  
Matches 232; Conservative 0; Mismatches 0; Indels 37; Gaps 1;

1 ASASYEEQYHSNLEIYSWIEFTTERHPDMLTKIHGSSFEKYPYLVLKVSGEQTKAKNAI 60  
115 ASASYEEQYHSNLEIYSWIEFTTERHPDMLTKIHGSSFEKYPYLVLKVSGEQTKAKNAI 174

61 WIDCGIHAREWISPAFCMLFTGH----- 83  
175 WIDCGIHAREWISPAFCMLFTGHITQFYGIQYTNLLRLVDVYVMPVNVNDGYDSMKK 234

84 NMMWRKNSFYANNHCIGTDLNRNFASKHWCCEGASSSCSEFYCGLYPESEPEYKAVAS 143  
235 NMMWRKNSFYANNHCIGTDLNRNFASKHWCCEGASSSCSEFYCGLYPESEPEYKAVAS 294

144 FLRRNINQIKAVISMHSYQHIIVFPYSYTRSKSKDHEELSLVASEAVRAIEKTSKNTRYT 203  
295 FLRRNINQIKAVISMHSYQHIIVFPYSYTRSKSKDHEELSLVASEAVRAIEKTSKNTRYT 354

204 HGHGSETLYLAPGGDDWIYDGIKYSFT 232  
355 HGHGSETLYLAPGGDDWIYDGIKYSFT 383

Db

RESULT 3  
US-08-277-540-3  
Sequence 3, Application US/08277540  
Patent No. 5474901  
GENERAL INFORMATION:  
APPLICANT: Drayna, Dennis T., Eaton, Dan L.  
TITLE OF INVENTION: No. 5474901el Plasma Carboxypeptidase  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Genentech, Inc.  
STREET: 460 Point San Bruno Blvd  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080

COMPUTER READABLE FORM:  
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: patin (genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/277,540  
FILING DATE: 19-JUL-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/167727  
FILING DATE: 15-DEC-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/959944  
FILING DATE: 14-OCT-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/649591  
FILING DATE: 01-FEB-91  
ATTORNEY/AGENT INFORMATION:  
NAME: Hasak, Janet E.  
REGISTRATION NUMBER: 28,616  
REFERENCE/DOCKET NUMBER: 689D1C1D1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415/225-1896  
TELEFAX: 415/952-9881  
TELEX: 910/371-7168  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 423 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
US-08-277-540-3

Query Match  
Best Local Similarity 92.6%; Score 1239.5; DB 1; Length 423;  
Matches 232; Conservative 0; Mismatches 0; Indels 37; Gaps 1;

1 ASASYEEQYHSNLEIYSWIEFTTERHPDMLTKIHGSSFEKYPYLVLKVSGEQTKAKNAI 60  
115 ASASYEEQYHSNLEIYSWIEFTTERHPDMLTKIHGSSFEKYPYLVLKVSGEQTKAKNAI 174

61 WIDCGIHAREWISPAFCMLFTGH----- 83  
175 WIDCGIHAREWISPAFCMLFTGHITQFYGIQYTNLLRLVDVYVMPVNVNDGYDSMKK 234

84 NMMWRKNSFYANNHCIGTDLNRNFASKHWCCEGASSSCSEFYCGLYPESEPEYKAVAS 143  
235 NMMWRKNSFYANNHCIGTDLNRNFASKHWCCEGASSSCSEFYCGLYPESEPEYKAVAS 294

144 FLRRNINQIKAVISMHSYQHIIVFPYSYTRSKSKDHEELSLVASEAVRAIEKTSKNTRYT 203  
295 FLRRNINQIKAVISMHSYQHIIVFPYSYTRSKSKDHEELSLVASEAVRAIEKTSKNTRYT 354

204 HGHGSETLYLAPGGDDWIYDGIKYSFT 232  
355 HGHGSETLYLAPGGDDWIYDGIKYSFT 383

Db

RESULT 4  
US-08-430-787A-3  
Sequence 3, Application US/08430787A  
Patent No. 5593674  
GENERAL INFORMATION:  
APPLICANT: Drayna, Dennis T., Eaton, Dan L.  
TITLE OF INVENTION: No. 5593674el Plasma Carboxypeptidase  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Genentech, Inc.  
STREET: 460 Point San Bruno Blvd  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080

```
COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/430,787A
FILING DATE: 27-APR-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/277,540
FILING DATE: 19-JUL-1994
APPLICATION NUMBER: 08/167727
FILING DATE: 15-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/959944
FILING DATE: 14-OCT-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/649591
FILING DATE: 01-FEB-91
ATTORNEY/AGENT INFORMATION:
NAME: Hasak, Janet E.
REGISTRATION NUMBER: 28,616
REFERENCE/DOCKET NUMBER: 689D1C1D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1896
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 423 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-430-787A-3
```

```
Query Match          92.6%; Score 1239.5; DB 1; Length 423;
Best Local Similarity 86.2%; Pred. No. 6.9e-127;
Matches 232; Conservative 0; Mismatches 0; Indels 37; Gaps 1;
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```
QY 1 ASASYEQYHSLNFIYMIETFRHPDMLTKIHGSSFEKPYLYLVKSGKEQTANAI 60
    |||||||
DB 115 ASASYEQYHSLNFIYMIETFRHPDMLTKIHGSSFEKPYLYLVKSGKEQTANAI 174

QY 61 WIDCGIHAREWISPAFLMFIH-----83
    |||||||
DB 175 WIDCGIHAREWISPAFLMFIHITQFYGIITQYTNLLRLVDFYVMPVAVNDGYSMKK 234

QY 84 NRMWRKNRSFYANNHCIGTDLNRFASKHWCCEGASSSSCSEYTCGLYPESEPEVKAVAS 143
    |||||||
DB 235 NRMWRKNRSFYANNHCIGTDLNRFASKHWCCEGASSSSCSEYTCGLYPESEPEVKAVAS 294

QY 144 FLRRNIQIKAYISMHSYQIIVPYSTRSKSKDHLELSLVASEAVRALEKTSKNRYT 203
    |||||||
DB 295 FLRRNIQIKAYISMHSYQIIVPYSTRSKSKDHLELSLVASEAVRALEKTSKNRYT 354

QY 204 HGHGSETLYLAPGGDDMIYDLGIKYSFT 232
    |||||||
DB 355 HGHGSETLYLAPGGDDMIYDLGIKYSFT 383
```

```
RESULT 5
US-08-869-057-2
Sequence 2, Application US/08869057
Patent No. 5985562
GENERAL INFORMATION:
APPLICANT: Morser, Michael J
APPLICANT: Nagashima, Mariko
TITLE OF INVENTION: Method of Detecting Thrombotic Disease
TITLE OF INVENTION: Risk
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Berlex Biosciences Legal Department
STREET: 15049 San Pablo Avenue
```

```
CITY: Richmond
STATE: California
COUNTRY: USA
ZIP: 94804-0099
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/869,057
FILING DATE: 03-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Washlien, Wendy L.
REGISTRATION NUMBER: 36,301
REFERENCE/DOCKET NUMBER: 51509AUSM1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-262-5411
TELEFAX: 510-262-7095
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 423 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE: Plasma
TISSUE TYPE:
FEATURE:
NAME/KEY: Peptide
LOCATION: 23..401
US-08-869-057-2
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Query Match          92.6%; Score 1239.5; DB 2; Length 423;
Best Local Similarity 86.2%; Pred. No. 6.9e-127;
Matches 232; Conservative 0; Mismatches 0; Indels 37; Gaps 1;
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QY 1 ASASYEQYHSLNFIYMIETFRHPDMLTKIHGSSFEKPYLYLVKSGKEQTANAI 60
    |||||||
DB 115 ASASYEQYHSLNFIYMIETFRHPDMLTKIHGSSFEKPYLYLVKSGKEQTANAI 174

QY 61 WIDCGIHAREWISPAFLMFIH-----83
    |||||||
DB 175 WIDCGIHAREWISPAFLMFIHITQFYGIITQYTNLLRLVDFYVMPVAVNDGYSMKK 234

QY 84 NRMWRKNRSFYANNHCIGTDLNRFASKHWCCEGASSSSCSEYTCGLYPESEPEVKAVAS 143
    |||||||
DB 235 NRMWRKNRSFYANNHCIGTDLNRFASKHWCCEGASSSSCSEYTCGLYPESEPEVKAVAS 294

QY 144 FLRRNIQIKAYISMHSYQIIVPYSTRSKSKDHLELSLVASEAVRALEKTSKNRYT 203
    |||||||
DB 295 FLRRNIQIKAYISMHSYQIIVPYSTRSKSKDHLELSLVASEAVRALEKTSKNRYT 354

QY 204 HGHGSETLYLAPGGDDMIYDLGIKYSFT 232
    |||||||
DB 355 HGHGSETLYLAPGGDDMIYDLGIKYSFT 383
```

```
RESULT 6
US-09-813-133A-4
Sequence 4, Application US/09813133A
Patent No. 6455294
GENERAL INFORMATION:
APPLICANT: GAN, Weiniu et al
TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS, AND
TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN PROTEASE PROTEINS, AND
FILE REFERENCE: C1001173
CURRENT APPLICATION NUMBER: US/09/813,133A
CURRENT FILING DATE: 2001-06-06
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 4.0
```

SEQ ID NO 4  
LENGTH: 423  
TYPE: PRT  
ORGANISM: Human  
US-09-813-133A-4

Query Match 91.8%; Score 1228.5; DB 4; Length 423;  
Best Local Similarity 85.5%; Pred. No. 1.1e-125;  
Matches 230; Conservative 0; Mismatches 2; Indels 37; Gaps 1;

QY 1 ASASYEQYHSLNEIYSWIEFTEHRPDMLTRIHIGSSFEKYPYLVLKSGKEQTAKNAI 60  
DB 115 ASASYEQYHSLNEIYSWIEFTEHRPDMLTRIHIGSSFEKYPYLVLKSGKEQTAKNAI 174  
QY 61 WIDCGIHAREWISPAFCMLFIH----- 83  
DB 175 WIDCGIHAREWISPAFCMLFIHITQFQIIGQYTNLRLVDFYMPVANNVNDGYSMKK 234  
QY 84 NRMWRKNSFYANNHCIGTDLNRFASKHMCCEGASSSCSEYCYGLYPESEPEYKAVAS 143  
DB 235 NRMWRKNSFYANNHCIGTDLNRFASKHMCCEGASSSCSEYCYGLYPESEPEYKAVAS 294  
QY 144 FLRRINQIKAYISMHSYQHIVPEYSTRSKSKDHELSLVASEAVRAIEKTSKNTRYT 203  
DB 295 FLRRINQIKAYISMHSYQHIVPEYSTRSKSKDHELSLVASEAVRAIEKTSKNTRYT 354  
QY 204 HGHGSETLYLAPGGGDDMIYDLGIKYSFT 232  
DB 355 HGHGSETLYLAPGGGDDMIYDLGIKYSFT 383

# RESULT 7

US-08-782-760-6  
Sequence 6, Application US/08782760

PATENT NO. 5948668  
GENERAL INFORMATION:  
APPLICANT: Hartman, Jacob  
APPLICANT: Fulga, Netta  
APPLICANT: Mendelovitch, Simona  
APPLICANT: Gorecki, Marian  
TITLE OF INVENTION: PRODUCTION OF ENZYMATICALLY ACTIVE  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham LLP  
STREET: 1185 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 10036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/782,760  
FILING DATE: 13-JAN-1997  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/378,233  
FILING DATE: 25-JAN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: White, John P.  
REGISTRATION NUMBER: 28,678  
REFERENCE/DOCKET NUMBER: 0336/43847  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 278-0400  
TELEFAX: (212) 391-0525  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 307 amino acids  
TYPE: amino acid

TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-782-760-6

Query Match 45.6%; Score 610; DB 2; Length 307;  
Best Local Similarity 45.0%; Pred. No. 2.2e-58;  
Matches 121; Conservative 43; Mismatches 65; Indels 40; Gaps 5;

QY 1 ASASYEQYHSLNEIYSWIEFTEHRPDMLTRIHIGSSFEKYPYLVLKSGKEQTAKNAI 60  
DB 1 ASGHSTYQYHSLNEIYSWIEFTEHRPDMLTRIHIGSSFEKYPYLVLKSGKEQTAKNAI 59  
QY 61 WIDCGIHAREWISPAFCMLFIH-----GH----- 83  
DB 60 FIDCGIHAREWISPAFCMLFIHITQFQIIGQYTNLRLVDFYMPVANNVNDGYSMKK 119  
QY 84 NRMWRKNSFYANNHCIGTDLNRFASKHMCCEGASSSCSEYCYGLYPESEPEYKAVAS 143  
DB 120 NRMWRKNSFYANNHCIGTDLNRFASKHMCCEGASSSCSEYCYGLYPESEPEYKAVAS 178  
QY 144 FLRRINQIKAYISMHSYQHIVPEYSTRSKSKDHELSLVASEAVRAIEKTSKNTRYT 203  
DB 179 FLRRINQIKAYISMHSYQHIVPEYSTRSKSKDHELSLVASEAVRAIEKTSKNTRYT 237  
QY 204 HGHGSETLYLAPGGGDDMIYDLGIKYSFT 232  
DB 238 YGPGATTITTPAAGSSDDMIYDLGIKYSFT 266

# RESULT 8

PCT-US96-00995-6  
Sequence 6, Application PC/TUS9600995

GENERAL INFORMATION:  
APPLICANT: Bio-Technology General Corp.  
TITLE OF INVENTION: PRODUCTION OF ENZYMATICALLY ACTIVE  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham LLP  
STREET: 1185 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 10036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/00995  
FILING DATE: 25-JAN-1996  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: White, John P.  
REGISTRATION NUMBER: 28,678  
REFERENCE/DOCKET NUMBER: 0336/43847-A-PCT  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 278-0400  
TELEFAX: (212) 391-0525  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 308 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
PCT-US96-00995-6

Query Match 45.6%; Score 610; DB 5; Length 307;  
Best Local Similarity 45.0%; Pred. No. 2.2e-58;  
Matches 121; Conservative 43; Mismatches 65; Indels 40; Gaps 5;

QY 1 ASASYEQYHSLNEIYSWIEFTEHRPDMLTRIHIGSSFEKYPYLVLKSGKEQTAKNAI 60



DB 1 ASGHSTKYNMNETEAMTQVATDNDLVQSVIGTTEGRNMYLKI-GKTRPNKPAI 59  
QY 61 WIDCGIHAREWISPAFLMEI-----GH-----83  
DB 60 FIDCGHAHEWISPAFCQFVEAVRTYNOELHMKOLDELDFYLPVYNIDGYTTWK 119  
QY 84 NRMWRKRSFYANNHCIGTDLNRNFASKHWCCEGASSSCSEYTCGLYPESEPEVKAVAS 143  
DB 120 DRMRKTRSTMGSSCLGVDPNRNF-NAGWCEVGASRSCSEYTCGPAPSEKETALAD 178  
QY 144 ELRRINQKATISMHSYQHIYFPIYSTRSKSKDHEELSLVASEAVRAIKTSKTRIT 203  
DB 179 FIRNNSTIKAYLTHSYSQMLPYSDYKLPENYEELNALVKGAKEI-ATLHGCTKYT 237  
QY 204 HGHSELYLAPGGDDWIYDLGIKYSFT 232  
DB 238 YCGGATTIYPAGGSDDMYSIDGIKYSFT 266

## RESULT 9

US-08-696-139-4  
; Sequence 4, Application US/08696139  
; Patent No. 5672496  
; GENERAL INFORMATION:  
; APPLICANT: Fayerman, Jeffrey T.  
; APPLICANT: Greenen, David P.  
; APPLICANT: Hersberger, Charles L.  
; APPLICANT: Larson, Jeffrey L.  
; APPLICANT: Steiner, Jane L.  
; APPLICANT: Zhang, Haichao  
; TITLE OF INVENTION: DNA SEQUENCES ENCODING PORCINE  
; TITLE OF INVENTION: PANCREATIC CARBOXYPEPTIDASE B  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Eli Lilly and Company  
; STREET: Lilly Corporate Center  
; CITY: Indianapolis  
; STATE: Indiana  
; COUNTRY: United States of America  
; ZIP: 46285  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/696,139  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/153,258  
; FILING DATE: 16-NOV-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Gaylo, Paul J.  
; REGISTRATION NUMBER: 36, 808  
; REFERENCE/DOCKET NUMBER: X-8681  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (317) 276-0756  
; TELEFAX: (317) 276-3861  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 306 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-696-139-4

Query Match 43.5%; Score 582; DB 1; Length 306;  
Best Local Similarity 44.3%; Pred. No. 2.5e-55;  
Matches 117; Conservative 40; Mismatches 67; Indels 40; Gaps 5;

QY 6 YEOYHSLNELYSWIEITERHPDMLTKIHIGSSFERYPLVYLKVGSKQETAKNAIWDG 65

DB 6 YEKYNNWETIEAMTKQVTSNPDLISRAIGTFIGNNITYLLKV-GKPPNKPALIMDCG 64  
QY 66 IHAREWISPAFLMEI-----GH-----NRMWR 88  
DB 65 FHAREWISPAFCQFVEAVRTYNGSHMTFELNKLDIFYLPVYNIDGYTTWKRRMR 124  
QY 89 KRSFYANNHCIGTDLNRNFASKHWCCEGASSSCSEYTCGLYPESEPEVKAVASFLRRN 148  
DB 125 KTRSTAGTTCIGTDPNRNF-DAGWCTTGASTDPCDEYCGSAASEKETKALADFLRNN 183  
QY 149 INQIKAYISMHSYQHIYFPIYSTRSKSKDHEELSLVASEAVRAIKTSKNRYTHGHS 208  
DB 184 LSSIKAYLTHSYSQMLPYSDYKLPENYELNNAKAAVEL-ATLYGTYTYPGA 242  
QY 209 ELYLAPGGDDWIYDLGIKYSFT 232  
DB 243 TTIYPAGGSDDMAYIDGIKYSFT 266

## RESULT 10

US-08-696-139-2  
; Sequence 2, Application US/08696139  
; Patent No. 5672496  
; GENERAL INFORMATION:  
; APPLICANT: Fayerman, Jeffrey T.  
; APPLICANT: Greenen, David P.  
; APPLICANT: Hersberger, Charles L.  
; APPLICANT: Larson, Jeffrey L.  
; APPLICANT: Steiner, Jane L.  
; APPLICANT: Zhang, Haichao  
; TITLE OF INVENTION: DNA SEQUENCES ENCODING PORCINE  
; TITLE OF INVENTION: PANCREATIC CARBOXYPEPTIDASE B  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Eli Lilly and Company  
; STREET: Lilly Corporate Center  
; CITY: Indianapolis  
; STATE: Indiana  
; COUNTRY: United States of America  
; ZIP: 46285  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/696,139  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/153,258  
; FILING DATE: 16-NOV-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Gaylo, Paul J.  
; REGISTRATION NUMBER: 36, 808  
; REFERENCE/DOCKET NUMBER: X-8681  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (317) 276-0756  
; TELEFAX: (317) 276-3861  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 404 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-696-139-2

Query Match 43.5%; Score 582; DB 1; Length 404;  
Best Local Similarity 44.3%; Pred. No. 3.8e-55;  
Matches 117; Conservative 40; Mismatches 67; Indels 40; Gaps 5;

QY 6 YEOYHSLNELYSWIEITERHPDMLTKIHIGSSFERYPLVYLKVGSKQETAKNAIWDG 65

Db 104 YEKYNMNETIEAMTKQVASENDLSPALGTFELGNNIYLKV-GKGGPKPAIFMCG 162  
QY 66 IHAREWISAPACLMFI-----GH-----NRMR 88  
Db 163 FHAREWISHACQWVREAVRTYRGIEQVTELLDLPVLPVINDIYITWTKRMR 222  
QY 89 KNRSEYANNHCIGTDLNENFASKHWCCEGASSSCSEFYCGLYPESEPEKAVASFLRN 148  
Db 223 KTRSTNACTTCIGTDPNNF-DAGCCTTGASTDPCDETYCCSAASEKETALADFLRN 281  
QY 149 INQIAVYISMHSQIHVPEYSTRSKSDHEELSLVASEAVRAIEKTSKNTRYTHGHS 208  
Db 282 LSSIAVYLIHSYSQMIIPYSDYKLEPNNALNLAKAVKEL-ATLYGTKYTGPGA 340  
QY 209 ETLVAPGGDDMIYDLGIRKSYFT 232  
Db 341 TTTPAAGSDDMAYDQGIKSYFT 364

## RESULT 11

US-09-011-769A-51  
Sequence 51, Application US/09011769A  
Patent No. 6436691  
GENERAL INFORMATION:  
APPLICANT: SLATER, Anthony M.  
BLAKEY, David C.  
DAVIES, David H.  
HENNAM, John F.  
HENNEQUIN, Laurent F.A.  
MARSHAM, Peter R.  
DOWELL, Robert I.  
TITLE OF INVENTION: Chemical Compounds  
NUMBER OF SEQUENCES: 87  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pillsbury Madison & Sutro, LLP  
STREET: 1100 New York Ave., N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 1.44 Mb disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: MS Word  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/011,769A  
FILING DATE: 13-Feb-1998  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/GB96/01975  
FILING DATE: 13-AUG-1996  
APPLICATION NUMBER: GB 9612295.7  
FILING DATE: 12-JUN-1996  
APPLICATION NUMBER: GB 9611019.2  
FILING DATE: 25-MAY-1996  
APPLICATION NUMBER: GB 9516810.0  
FILING DATE: 16-AUG-1995  
INFORMATION FOR SEQ ID NO: 51:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 329 amino acids  
TYPE: amino acid  
MOLECULE TYPE: linear  
TOPOLOGY: linear  
SEQUENCE DESCRIPTION: SEQ ID NO: 51:  
US-09-011-769A-51

Query Match 42.4%; Score 567; DB 4; Length 329;  
Best Local Similarity 41.3%; Pred. No. 1.2e-53;  
Matches 111; Conservative 46; Mismatches 72; Indels 40; Gaps 5;  
QY 1 ASASYEQYHSLNETYSWIEFTTERHPDMLTKIHIGSSFEEKYPLYLVKVSKEQTKAKNAI 60

Db 23 ATGHSYKYNMNETIEAMTKQVASENDLSPALGTFELGNNIYLKV-GKAGQKPAI 81  
QY 61 WIDCGIHAREWISAPACLMFI-----GH-----NRMR 83  
Db 82 FMDGCFHAREWISAPACQWVREAVRTYRGIEQVTELLDLPVLPVINDIYITWTKR 141  
QY 84 NRMKRNKRSYANNHCIGTDLNENFASKHWCCEGASSSCSEFYCGLYPESEPEKAVAS 143  
Db 142 SRFRKTRSTHTGSSCIGTDPNNF-DAGCCTTGASTDPCDETYCCSAASEKETALAD 200  
QY 144 FLRRNIQIAVYISMHSQIHVPEYSTRSKSDHEELSLVASEAVRAIEKTSKNTRYTH 203  
Db 201 FIRKLSIAVYLIHSYSQMIIPYSDYKLEPNNALNLAKAVKEL-ASLHGTYT 259  
QY 204 HGHSETLVAPGGDDMIYDLGIRKSYFT 232  
Db 260 YGPGATTIYPAGGSDDMAYDQGIKSYFT 288

## RESULT 12

US-09-011-769A-47  
Sequence 47, Application US/09011769A  
Patent No. 6436691  
GENERAL INFORMATION:  
APPLICANT: SLATER, Anthony M.  
BLAKEY, David C.  
DAVIES, David H.  
HENNAM, John F.  
HENNEQUIN, Laurent F.A.  
MARSHAM, Peter R.  
DOWELL, Robert I.  
TITLE OF INVENTION: Chemical Compounds  
NUMBER OF SEQUENCES: 87  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pillsbury Madison & Sutro, LLP  
STREET: 1100 New York Ave., N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 1.44 Mb disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: MS Word  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/011,769A  
FILING DATE: 13-Feb-1998  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/GB96/01975  
FILING DATE: 13-AUG-1996  
APPLICATION NUMBER: GB 9612295.7  
FILING DATE: 12-JUN-1996  
APPLICATION NUMBER: GB 9611019.2  
FILING DATE: 25-MAY-1996  
APPLICATION NUMBER: GB 9516810.0  
FILING DATE: 16-AUG-1995  
INFORMATION FOR SEQ ID NO: 47:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 349 amino acids  
TYPE: amino acid  
MOLECULE TYPE: linear  
TOPOLOGY: linear  
SEQUENCE DESCRIPTION: SEQ ID NO: 47:  
US-09-011-769A-47

Query Match 42.4%; Score 567; DB 4; Length 349;  
Best Local Similarity 41.3%; Pred. No. 1.3e-53;  
Matches 111; Conservative 46; Mismatches 72; Indels 40; Gaps 5;  
QY 1 ASASYEQYHSLNETYSWIEFTTERHPDMLTKIHIGSSFEEKYPLYLVKVSKEQTKAKNAI 60

Db 23 ATGSHYKYNWETIEATQVATENPALISRVIGTFEGRAIYLKV-GKAGONKRAI 81  
Qy 61 WIDCGIHAREWISPAFCIMFT-----GH----- 83  
Db 82 FMDCGFHAREWISPAFCIMFT-----GH----- 83  
Qy 84 NRMWRKNSFPANNHCICTDNRNFASKHMCCEGASSSCSEYTCGLYPESEPEVKAVAS 143  
Db 142 SRFRKTRSTHTGSSCIGTDPNRNF-DAGWCEIGASRNPCEYTCGPAESEKETKALAD 200  
Qy 144 FLRRNINOIKAYISMHSYQHIIVPEPYSTRSKSKDHEELSLVASEAVRAIEKTSKNTRYT 203  
Db 201 FIRKLSSIKAYLTIHSYSQMMIYPYSAYKIGENNAELNALAKATVKEL-ASLHGTYT 259  
Qy 204 HGHGSETIYLA PGDDWITYDLGIRYSFT 232  
Db 260 YPGATTIYPAGGSDDWAYDOGIRYSFT 288

## RESULT 13

US-08-860-882A-57  
Sequence 57, Application US/08860882A  
Patent No. 5985281  
GENERAL INFORMATION:  
APPLICANT: TAYLORSON, CHRISTOPHER JOHN  
APPLICANT: EGGELT, HENDRIKUS JOHANNES  
APPLICANT: TARRAGONA-FIOL, ANTONIO  
APPLICANT: RABIN, BRIAN ROBERT  
APPLICANT: BOYLE, FRANCIS THOMAS  
APPLICANT: HENNAM, JOHN FREDERICK  
APPLICANT: BLAKELY, DAVID CHARLES  
APPLICANT: MARSHAM, PETER ROBERT  
APPLICANT: HEATON, DAVID WILLIAM  
APPLICANT: DAVIES, DAVID HUM  
TITLE OF INVENTION: CHEMICAL COMPOUNDS  
NUMBER OF SEQUENCES: 77  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: PILLSBURY, MADISON & SUTRO  
STREET: 1100 NEW YORK AVENUE, N.W.  
CITY: WASHINGTON  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/860,882A  
FILING DATE: JUNE 23, 1997  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: DONALD J. BIRD  
REGISTRATION NUMBER: 25,323  
REFERENCE/DOCKET NUMBER: 9901/238653  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 861-3027  
TELEFAX: (202) 822-0944  
TELEX: 6174627 CUSH  
INFORMATION FOR SEQ ID NO: 57:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 415 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-860-882A-57

Query Match 42.4%; Score 567; DB 2; Length 415;  
Best Local Similarity 41.3%; Pred. No. 1.7e-53;  
Matches 111; Conservative 46; Mismatches 72; Indels 40; Gaps 5;

Qy 1 ASASYEQHSLNLIYSWIEFFTERHPDLTKIHIGSSFEKYPLVYLVKSGEOTAKNAI 60  
Db 109 ATGSHYKYNWETIEATQVATENPALISRVIGTFEGRAIYLKV-GKAGONKRAI 167  
Qy 61 WIDCGIHAREWISPAFCIMFT-----GH----- 83  
Db 168 FMDCGFHAREWISPAFCIMFT-----GH----- 83  
Qy 84 NRMWRKNSFPANNHCICTDNRNFASKHMCCEGASSSCSEYTCGLYPESEPEVKAVAS 143  
Db 228 SRFRKTRSTHTGSSCIGTDPNRNF-DAGWCEIGASRNPCEYTCGPAESEKETKALAD 286  
Qy 144 FLRRNINOIKAYISMHSYQHIIVPEPYSTRSKSKDHEELSLVASEAVRAIEKTSKNTRYT 203  
Db 287 FIRKLSSIKAYLTIHSYSQMMIYPYSAYKIGENNAELNALAKATVKEL-ASLHGTYT 345  
Qy 204 HGHGSETIYLA PGDDWITYDLGIRYSFT 232  
Db 346 YPGATTIYPAGGSDDWAYDOGIRYSFT 374

## RESULT 14

US-09-011-769A-39  
Sequence 39, Application US/09011769A  
Patent No. 6436691  
GENERAL INFORMATION:  
APPLICANT: SLATER, Anthony M.  
APPLICANT: BLAKELY, David C.  
APPLICANT: DAVIES, David H.  
APPLICANT: HENNAM, John F.  
APPLICANT: HENNEQUIN, Laurent F.A.  
APPLICANT: MARSHAM, Peter R.  
APPLICANT: DOWELL, Robert I.  
TITLE OF INVENTION: Chemical Compounds  
NUMBER OF SEQUENCES: 87  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pillsbury Madison & Sutro, LLP  
STREET: 1100 New York Ave., N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 1.44 Mb disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: MS Word  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/011,769A  
FILING DATE: 13-Feb-1998  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/GB96/01975  
FILING DATE: 13-AUG-1996  
APPLICATION NUMBER: GB 9612295.7  
FILING DATE: 12-JUN-1996  
APPLICATION NUMBER: GB 9611019.2  
FILING DATE: 25-MAY-1996  
APPLICATION NUMBER: GB 9516810.0  
FILING DATE: 16-AUG-1995  
INFORMATION FOR SEQ ID NO: 39:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 415 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 39:  
US-09-011-769A-39

Query Match 42.4%; Score 567; DB 4; Length 415;  
Best Local Similarity 41.3%; Pred. No. 1.7e-53;  
Matches 111; Conservative 46; Mismatches 72; Indels 40; Gaps 5;

```

0Y 1 ASASYEDYHSINTEYWSIEETEPENHMLKIHGSEFEKYPLUYLVKSGEDQANAI 60
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 109 ATGSHYEKYNKMETLEANTQOVALENPALISRSYIGTFEBRATYLLKV- GKAGQNKPAI 167
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
0Y 61 WIDGCSHAREMISPAFCIMET-----GH----- 83
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 168 FMDCSFHAREMISPAFCOMFVREAVRTGRIQVTELDKLDYFVLPLVINDIGYIYWTWK 227
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
0Y 84 NRMWKNKSPFANNHCICTDNRNFAASKHMECEGASSSCSEYTCGILYRSEPRVKVAS 143
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 228 SRFMRKTSSTHTGSSCICITDPNRRNF-DAGMCEIGASRNPCCDEYTCGPAASEKTKTKLAD 266
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
0Y 144 FLRRNINQIKAVISMHSIQHIVEPYSTRSKSDHEELSLVASEAVRALEKTSKNTRYT 203
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 287 FIRNKLSSIKAYLTIHSYSQMMIYPSAYAVKLGEMNALMLNAKATYKEL-ASLHGTRYT 345
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
0Y 204 HGHGSEYLYLAPGGGDMIVYLDGHSYFT 232
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 346 YGPGATITLYPAAGSDDMADWDGGRYSFT 374
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

RESULT 15  
US-09-011

```

: Sequence 56, Application US/09011769A
: Patent No. 6436691
:
: GENERAL INFORMATION:
: APPLICANT: SLATER, Anthony M.
:           BLAKEY, David C.
:           DAVIES, David H.
:           HENNAM, John F.
:           HENNEQUIN, Laurent F.A.
:           MARSHAM, Peter R.
:           DONELL, Robert I.
:
: TITLE OF INVENTION: Chemical Compounds
: NUMBER OF SEQUENCES: 87
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Pillsbury Madison & Sutro, LLP
: STREET: 1100 New York Ave., N.W.
: CITY: Washington
: STATE: D.C.
: COUNTRY: U.S.A.
: ZIP: 20005
:
: COMPUTER READABLE FORM:
: MEDIUM TYPE: 1.44 Mb disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: MS Word
:
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/011,769A
: FILING DATE: 13-Feb-1998
: CLASSIFICATION: <unknown>
:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: PCT/GB96/01975
: FILING DATE: 13-AUG-1996
: APPLICATION NUMBER: GB 9612295.7
: FILING DATE: 12-JUN-1996
: APPLICATION NUMBER: GB 9611019.2
: FILING DATE: 25-MAY-1996
: APPLICATION NUMBER: GB 9516810.0
: FILING DATE: 16-AUG-1995
:
: INFORMATION FOR SEQ ID NO: 56:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 424 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
:
: MOLECULE TYPE: protein
: SEQUENCE DESCRIPTION: SEQ ID NO: 56:
: IS-09-011-769A-56

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Query Match	42.48;	Score 567;	DB 4;	Length 424;
Best Local Similarity	41.38;	Pred. No. 1.8e-53;		
Matches 11;	Conservative 46;	Mismatches 72;	Indels 40;	Gaps 5

```

QY      1 ASASYEDYSHLNEYSLNYSIEETTERHDMPLMKIHGSSFEEXYPLYLKSQEDOTANKAI 60
      11 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      118 ATGSHYEAKYNNKMETLEANTQOVATENPALISRSYIGTTFEGRALYLLKV -GKAQONKPAI 170
      118 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY      61 WIDDCIHARENISPACLMFT-----GH----- 83
      61 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

Db      177 FMDGCFHAREMISPAFCOMFPEAREVARTGYREIQVTELLDKLDPEVLPVLINDIGIYMTK 230
      177 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY      84 NRMNRKNSFPANNHGICITDINRNPASKHMCHEGASSGSEYTCGLYPESEPRKAVAS 140
      84 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

Db      237 SRMRKRTSTHTGSSCICITDPNRRNF -DAGMCEIGASRRPCDEYTCGPAESEKTKTLAD 290
      237 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY      144 FLRRNINQIKAYISMHSYQHIIVEPYSYTRNSKDHEHLSLVASEAVARLEKTSKRNTRY 203
      144 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

Db      296 FIRKLKSSIKAYELTIHSYSOMMIIPYSAYKXLENNALNLAKATVAKEL -ASLHGIRKTY 350
      296 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY      204 HGHGSEPLYLAPGGGDDMIYDLGIKSYST 232
      204 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

Db      355 YGPGATTIYPAAGSGDDWADOGIIRSYST 383
      355 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

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Job time : 11.3814 secs

Job time : 11.3814 secs

GenCore version 5.1.4-p5.4578  
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OM protein - nucleic search, using frame\_plus.p2n model

Run on: May 19, 2003, 03:14:57 ; Search time 35.0847 seconds  
(without alignments)  
3146.770 Million cell updates/sec

Title: US-09-980-881A-2  
Perfect score: 1911  
Sequence: 1 MKLSTLAVLVPIVLECEQHV.....IKSFTSNPVEKLLPLSLK 360

Scoring table: BLOSUM62  
Xgapop 10.0, Xgapext 0.5  
Ygapop 10.0, Ygapext 0.5  
Fgapop 6.0, Fgapext 7.0  
Delop 6.0, Delext 7.0

Searched: 441362 segs, 153338381 residues  
Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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-O/cgn2.1/uspro.spool/US09980881/runat.12052003\_085041.16630/app\_query.fasta.1.1429  
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-LOOPEXT=0 -UNITS-bits -START=1 -END=1 -MATRIX-blosum62 -TRANS-human40.cdi  
-LIST=45 -DOCALLIGN=200 -THR\_SCORE-pct -THR\_MAX=100 -THR\_MIN=0 -ALIGN=15  
-MODE-LOCAL -OUTPMT-pto -NORM-ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=200000000  
-USER-US09980881@cgn.1.1.62 @runat.12052003\_085041.16630 -NCPU=6 -ICPU=3  
-NO\_XLPHY -NO\_MMAP -IARGEOUERY -NEG\_SCORES=0 -WAIT -LONGLOG -DEV TIMECOUT=120  
-WARN\_TIMECOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7  
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued\_Patents\_NA:\*

- 1: /cgn2.6/prodata/1/lna/5A.COMB.seq:\*
- 2: /cgn2.6/prodata/1/lna/5B.COMB.seq:\*
- 3: /cgn2.6/prodata/1/lna/6A.COMB.seq:\*
- 4: /cgn2.6/prodata/1/lna/5B.COMB.seq:\*
- 5: /cgn2.6/prodata/1/lna/PCTUS.COMB.seq:\*
- 6: /cgn2.6/prodata/1/lna/backfilesl.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	1849.5	96.8	1625	4 US-09-813-133A-1	Sequence 1, Appl1
2	1832	95.9	1272	4 US-08-869-057-1	Sequence 1, Appl1
3	1832	95.9	1749	1 US-07-649-591B-2	Sequence 2, Appl1
4	1832	95.9	1749	1 US-08-277-540-2	Sequence 2, Appl1
5	1832	95.9	1749	1 US-08-430-882A-2	Sequence 2, Appl1
6	640.5	33.5	1215	1 US-08-696-139-1	Sequence 1, Appl1
7	639	33.4	1263	2 US-08-860-882A-56	Sequence 56, Appl1
8	639	33.4	1263	4 US-09-011-769A-38	Sequence 38, Appl1
9	631.5	33.0	1284	2 US-08-860-882A-71	Sequence 71, Appl1
10	631.5	33.0	1284	4 US-09-011-769A-55	Sequence 55, Appl1
11	623	32.6	2154	4 US-09-171-945-124	Sequence 124, Appl1
12	611.5	32.0	1311	4 US-09-675-305-9	Sequence 9, Appl1

13	604	31.6	927	2 US-08-782-760-5	Sequence 5, Appl1
14	604	31.6	927	5 PCT-US96-00995-5	Sequence 5, Appl1
15	576	30.1	921	1 US-08-696-139-3	Sequence 3, Appl1
16	564	29.5	2128	4 US-09-675-305-13	Sequence 13, Appl1
17	561	29.4	999	2 US-08-860-882A-67	Sequence 67, Appl1
18	561	29.4	999	4 US-09-011-769A-50	Sequence 50, Appl1
19	561	29.4	1053	2 US-08-860-882A-64	Sequence 64, Appl1
20	561	29.4	1053	4 US-09-011-769A-46	Sequence 46, Appl1
21	554	29.0	1059	2 US-08-860-882A-74	Sequence 74, Appl1
22	554	29.0	1059	4 US-09-011-769A-59	Sequence 59, Appl1
23	553	28.9	1059	2 US-08-860-882A-77	Sequence 77, Appl1
24	553	28.9	1059	4 US-09-011-769A-63	Sequence 63, Appl1
25	546	28.6	1200	4 US-09-710-099-7	Sequence 7, Appl1
26	543	28.4	1870	4 US-09-171-945-112	Sequence 112, Appl1
27	528.5	27.7	1050	4 US-09-675-305-11	Sequence 11, Appl1
28	519.5	27.2	1311	4 US-09-710-099-5	Sequence 5, Appl1
29	513	26.8	1251	3 US-08-640-906-3	Sequence 3, Appl1
30	513	26.8	1251	4 US-09-395-936-3	Sequence 3, Appl1
31	487.5	25.5	1257	3 US-08-640-906-1	Sequence 1, Appl1
32	487.5	25.5	1257	4 US-09-395-936-1	Sequence 1, Appl1
33	460.5	24.1	945	4 US-09-710-099-3	Sequence 3, Appl1
34	460.5	24.1	945	4 US-09-710-099-11	Sequence 11, Appl1
35	458.5	24.0	2247	4 US-09-710-099-15	Sequence 15, Appl1
36	434	22.7	1056	4 US-09-710-099-9	Sequence 9, Appl1
37	434	22.7	1056	4 US-09-710-099-1	Sequence 1, Appl1
38	363	19.0	55827	4 US-09-813-133A-3	Sequence 3, Appl1
39	289.5	15.1	741	4 US-09-675-305-5	Sequence 5, Appl1
40	213	11.1	591	4 US-09-331-709-2	Sequence 2, Appl1
41	198.5	10.4	629	4 US-09-280-116-228	Sequence 228, Appl1
42	168.5	8.8	515	4 US-08-998-416-125	Sequence 125, Appl1
43	133.5	7.0	673	4 US-09-280-116-93	Sequence 93, Appl1
44	118.5	6.2	2504	1 US-08-484-105-15	Sequence 15, Appl1
45	118.5	6.2	2504	1 US-08-484-106-15	Sequence 15, Appl1

## ALIGNMENTS

RESULT 1  
US-09-813-133A-1  
; Sequence 1, Application US/09813133A  
; Patent No. 6455294  
; GENERAL INFORMATION:  
; APPLICANT: GAN, weiniu et al  
; TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN PROTEASE PROTEINS, AND  
; FILE REFERENCE: C1001173  
; CURRENT APPLICATION NUMBER: US/09/813.133A  
; CURRENT FILING DATE: 2001-06-06  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 1625  
; TYPE: DNA  
; ORGANISM: Human  
US-09-813-133A-1

## Alignment Scores:

Pred. No.: 1 99e-221 Length: 1625  
Score: 1849.50 Matches: 355  
Percent Similarity: 94.18% Conservative: 1  
Best Local Similarity: 93.92% Mismatch: 4  
Query Match: 96.78% Indels: 18  
DB: 4 Gaps: 1

US-09-980-881A-2 (1-360) x US-09-813-133A-1 (1-1625)

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|||||  
Db 17 ATGAAGCTTTCACACCTTCAGCTCTGTACCAATGTTCTCTGTGACACAGTTC 76  
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QY 21 PheAlaPheGlnSerGlyGlnValLeuAlaValLeuProAlaGlyThrSerArgGlnValGln 40  
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Db 77 TTCGGCTTCAGAGTGGCCAACTTCTAGCTGCTTCTCCAGAACCTTACGCAAGTTCAA 136
QY 41 VALLUGLNASLLeuThrThrThrThrGluLeuValLeuTrpGlnProValThraAlaasp 60
Db 137 GTTCTACGAACTTCTACACATATGATGATTTCTCTGACACCGGTACACACTGAC 196
QY 61 LeuIleValLysLysGlnValHisPhePheValAsnLysAspValaspVal 80
Db 197 CTTATTGGAGAAAAAACAACTCATTTTGTGTAATGCATTCGATGTCACATGTG 256
QY 81 LysAlaHisLysAsnValSerGlyLeuProCysSerValLeuValAlaaspValasp 100
Db 257 AAAGCCCATTTAAATGAGCGCAATTCATGCTGCTGCGAGATGTGGAAGAT 316
QY 101 LeuIleGlnGlnIleSerAsnAspThrValSerProArgLysSerAlaSerGlyTyr 120
Db 317 CTTATTCAACAGACAGATTTCCACACACAGTACAGCCCGCGCTCCGCACTGATCAT 376
QY 121 GlnGlnTyrHisSerLeuAsnGluLeuTyrSerTrpIleGluPheIleThrGluArgHis 140
Db 377 GAACAGTATCACTCACTAAATGAATCTATTCTGATAGAAATTATTAAGTACAGAGCAT 436
QY 141 ProAspMetLeuThrLysIleHisIleGlySerSerPheGluLysTyrProLeuTyrVal 160
Db 437 CCGATATGCTTACAAAATCCACATTTGATCCATTTGAGAAATACCCACTCATGT 496
QY 161 LeuLysValSerGlyLysGluGlnThrAlaLysAsnAlaIleTrpIleAspCysGlyIle 180
Db 497 TTTAAAGTTTCTGGAAAAGAACACAGCCCAAAATGCCATATGATGATGACTGTGGAATC 556
QY 181 HisAlaArgGluTrpIleSerProAlaPheCysLeuTrpPheIleGlyHisAsnArgMet 200
Db 557 CATGCCAGAGATGATCTCTCCCTGCTTCTGCTGTGCTGATAGCCCAATATGATG 616
QY 201 TrpArgLysAsnArgSerPheTyrAlaAsnAsnHisCysIleGlyThrAspLeuAsnSer 220
Db 617 TGGAGAAAGAACCGTTCTTTCTATGCGAACATCTTTCATCTGGAGACAGACCTGAAATAGG 676
QY 221 AsnPheValSerLysHisTrpCysGlnGluGlnLysAlaSerSerSerCysSerGluThr 240
Db 677 AACTTTCCTTCCAAACATGCTGTGAGAGAGTGCATCCATCTCATTCGCGAAAC 736
QY 241 TyrCysGlyLeuTyrProGlnSerGluProGlnValLysAlaValAlaSerPheLeuArg 260
Db 737 TACTGTGACTTATTCCTGAGTCAAGAACCAAGTGAAGCGAGTCACTTCTTGAGA 796
QY 261 ArgAsnIleAsnGlnIleLysAlaTyrIleSerMetHisSerTyrSerGlnHisIleVal 280
Db 797 AGAATATCAACACGATTAAGCATACATCAGCATGCTTCTATCTCCACACATATAGTG 856
QY 281 PheProTyrSerTyrThrArgSerLysSerLysAspHisGlnGluLeuSerLeuValAla 300
Db 857 TTTCCATATTCCTTACACGAACTAAAGCAAGACCATGAGAACTGCTCTGTAAGCC 916
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QY 321 GlySerGlnThrLeuTyrLeuAlaProGlyGlyLysAspTrpIleTyrAspLeuGly 340
Db 977 GGCCTCAAGAACCTTATACCTAGCTCTCTGAGGTGGGACCATTTGATCTATGATTTGGGC 1036
QY 341 IleLysTyrSerPhe----- 345
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RESULT 2  
US-08-869-057-1  
; Sequence 1, Application US/08869057

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; Patent No. 5985562
; GENERAL INFORMATION:
; APPLICANT: Morser, Michael J
; APPLICANT: Nagashima, Mariko
; TITLE OF INVENTION: Method of Detecting Thrombotic Disease
; TITLE OF INVENTION: Risk
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESS: Berlex Biosciences Legal Department
; STREET: 15049 San Pablo Avenue
; CITY: Richmond
; STATE: California
; COUNTRY: USA
; ZIP: 94804-0099
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/869,057
; FILING DATE: 03-JUN-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Washlien, Wendy L
; REGISTRATION NUMBER: 36,301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-262-5411
; TELEFAX: 510-262-7095
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1272 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; PUBLICATION INFORMATION:
; AUTHORS: Eaton, Dan L.
; AUTHORS: Malloy, Beth E.
; AUTHORS: Tsai, Siao P.
; AUTHORS: Henzel, William
; AUTHORS: Drayna, Dennis
; TITLE: Isolation, Molecular Cloning, and Partial
; TITLE: Characterization of a No. 5985562el Carboxypeptidase B
; JOURNAL: J. Biol. Chem.
; VOLUME: 266
; ISSUE: 32
; PAGES: 21833-21838
; DATE: No. 5985562 15-1991
; US-08-869-057-1
;
; Alignment Scores:
; Pred. No.: 2,05e-219 Length: 1272
; Score: 1832.00 Matches: 357
; Percent Similarity: 86.27% Conservative: 1
; Best Local Similarity: 86.02% Mismatches: 2
; Query Match: 95.87% Indels: 55
; DB: 2 Gaps: 2
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; Db 1 ATGAAAGCTTGGACGCTTGAGCTTGTACCATTTCTCTCTGTAGCGACATGTC 60
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; QY 21 PheAlaPheGlnSerGlyGlnValLeuAlaLeuProArgThrSerArgGlnValGln 40
; Db 61 TTCGGCTTCAGAGTGGCCAAAGTTTACGCTGCTTCTCTAGAACCTCTAGGCAAGTTCAA 120
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; QY 41 ValLeuGlnAsnLeuThrThrThrThrGluIleValLeuTrpGlnProValThraAlaasp 60

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Qy 197 ----- 197
Db 601 TTCTATGGCATATAGGGCAATATACCAATCTCTGAGGCTTGTGATTTCTATCTATG 660
Qy 198 -----AsnArgMetTrpArgLys 203
Db 661 CCGGTGTTAATGTGACCGTTATGACTACTCATGAGAAAAGAAATCGAATGTGGAGAG 720
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Db 721 AACGGTCTTCTGTAAGAACATCATGTCATCGGAACAGACCTGAATAGAGAACTTGTCT 780
Qy 224 SerLysHisTrpCysGluGluGlyAlaSerSerSerSerSerSerSerSerSerSer 243
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Qy 244 LeuTyrProGluSerGluProGluValLysLysLysLysLysLysLysLysLysLys 263
Db 841 CTTATCTGTGAGTCAAGACCAAGAGTGAAGGAGCTAGCTTCTTGAAGAAATATTC 900
Qy 264 AsnGlnIleLysAlaTyrIleSerMetHisSerTyrSerGlnHisIleValPheProTyr 283
Db 901 AACGAGATTAAAGCATCATGATGATCATCTCCGCAATATATGCTTTCCATAT 960
Qy 284 SerTyrThrArgSerLysSerLysAspHisGluLeuSerLeuValAlaSerGluAla 303
Db 961 TCCATATGACAGAACTAAAGCAAGACCATGAGAACTGCTCTAGTACGACGAGAACCA 1020
Qy 304 ValArgAlaIleAspLysThrSerLysAspThrArgTyrTrpHisGlyHisGlySerGlu 323
Db 1021 GTTGTGCTATGTAAGAAACTAGTAATAATACAGGTATACATGAGGCAATGGCTCAGAA 1080
Qy 324 ThrLeuTyrLeuAlaProGlyGlyGlyAspAspTrpIleTyrAspLeuGlyIleLysTyr 343
Db 1081 ACCTTATACCTAGCTCTCGAGAGTGGGAGCATGATGATCTATGATTTGGCATCAAAAT 1140
Qy 344 SerPhe-----Th 346
Db 1141 TCGTTTCAATTGAACCTCGAGATACGGGCAATACGGAATCTTGCTGCCGAGCGTTAC 1200
Qy 346 rSerAsnProProValGlyLysLeuLeuProLeuSerLeuLys 360
Db 1201 ATCAAAACCCACCTGTAGAGAGCTTTTGCCTGCTCTCTAATA 1243

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RESULT 3
US-07-649-591B-2
: Sequence 2, Application US/07649591B
: Patent No. 5206161
: GENERAL INFORMATION:
: APPLICANT: Dennis Dreyne and Daniel Eaton
: TITLE OF INVENTION: No. 5206161el Plasma Carboxypeptidase
: NUMBER OF SEQUENCES: 8
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Genentech, Inc.
: STREET: 460 Point San Bruno Blvd
: CITY: South San Francisco
: STATE: California
: COUNTRY: USA
: ZIP: 94080
: COMPUTER READABLE FORM:
: MEDIUM TYPE: 5.25 inch, 360 kb floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: patin (Genentech)
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/07/649,591B
: FILING DATE: 19910201
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Hasak, Janet E.
: REGISTRATION NUMBER: 28,616
: REFERENCE/DOCKET NUMBER: 689
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415/266-1896
: TELEFAX: 415/952-9881
: TELEX: 910/371-7168
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1749 bases
: TYPE: NUCLEIC ACID
: STRANDEDNESS: single
: TOPOLOGY: linear
: FEATURE:
: NAME/KEY: hybridization probe
: LOCATION: 133 to 178
: IDENTIFICATION METHOD:
: OTHER INFORMATION:
: FEATURE:
: NAME/KEY: potential clip site
: LOCATION: 380 to 382
: IDENTIFICATION METHOD:
: OTHER INFORMATION:
: FEATURE:
: NAME/KEY: signal sequence
: LOCATION: 41 to 106
: IDENTIFICATION METHOD:
: OTHER INFORMATION:
: US-07-649-591B-2
:
: Alignment Scores:
: Pred. NO.: 3.51e-219 Length: 1749
: Score: 1832.00 Matches: 357
: Percent Similarity: 86.27% Conservative: 1
: Best local Similarity: 86.02% Mismatches: 2
: Query Match: 95.87% Indels: 55
: Gaps: 2
:
: US-09-980-881a-2 (1-360) x US-07-649-591B-2 (1-1749)
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: Qy 1 MetLysLeuCysSerLeuAlaValLeuValProIleValLeuPheCysGluGlnHisVal 20
: Db 41 ATGAGCTTGCAGCCTTGACAGTCTCTGTACCATGTTCTCTGTGAGCAGCATGTC 100

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OY 21 PheAlaPheGlnSerGlyGlnValLeuAlaLeuProArgThrSerArgGlnValGln 40
DB 101 TTCGGGTTTCACAGTGGCCAACTTCTAGCTGCTTCTAGAACCTCTAGGCAAGTTTCAA 160
OY 41 ValLeuGlnAsnLeuThrThrThrTyrgluileValLeuTrpGlnProValThrAlaasp 60
DB 161 GTTCTACGAACTCTTACACATATGATGATTTCTCTGCGACCGGTACACCTGCAC 220
OY 61 LeuileValLysLysGlnValHisPhePheValAsnLysSerAspValAspAsnVal 80
DB 221 CTTATTGTGCAAAAAAACAACTCCATTTTGTGTAATGCACTGTGATGTCACAAATGTG 280
OY 81 LysAlaHisLysAsnValSerGlyLeuProCysSerValLeuLeuAlaAspValGluasp 100
DB 281 AAAGCCCATTTAAATGATGAGCGAATTCACATGCTGCTGCGACAGCTGGAACAT 340
OY 101 LeuileGlnGlnGlnLysSerAsnAspThrValSerProArgAlaSerAlaSerTyrr 120
DB 341 CTTATTCAACAGCAGATTTCACACACAGCAGCAGCCCGGCTCCGCAATCGTACTAT 400
OY 121 GluGlnTyrrHisSerLeuAsnGluileTyrrSerTrpIleGluPheIleThrGluArgHis 140
DB 401 GAACAGTATCACTCACTCAATATCAATCTTCTGATAGATTTATATAGTACAGGCAAT 460
OY 141 ProAspMetLeuThrLysIleHisIleGlySerSerPheGluLysTyrrProLeuTyrrVal 160
DB 461 CCGTATATGCTTACAAAATCCACATTTGATCCATTTGAGAAAGTACCCTCATGTT 520
OY 161 LeuLysValSerGlyLysGlnGlnThrValLysAsnAlaIleTrpIleAspCysGlyLe 180
DB 521 TTAAAGGTTTGGAAAAGAAACAAACACCCAAATGCAATGATGATGATGATGATG 580
OY 181 HisAlaArgGluTrpIleSerProAlaPheCysLeuTrpPheIleGlyHis 197
DB 581 CATGCCAGAGATGATGATCTCCGCTTCTGCTTCTGCTGCTGCTGCTGCTGCTGCTG 640
OY 197 197
DB 641 TTCTATGGGATTAATAGGCAATATACCAATCTCCTGAGCGTTGATTTCTATGTTATG 700
OY 198 198
DB 701 CCGGTGTTATGTGACGCTTATGACTACTACTCATGCAAAAAAGATTCGATGTGAGAAAG 760
OY 204 AsnArgSerPheTyrrAlaAsnAsnHisCysIleGlyThrAspLeuAsnSerAsnPheVal 223
DB 761 AACCGTTCTTCTATGCGAACAATCATTTGCATCGGAACAGCTGAAATAGGAATTTGCT 820
OY 224 SerLysHisTrpCysGluGluGlyAlaSerSerSerSerCysSerGluThrTyrrCysGly 243
DB 821 TCCAAACACTGGTGTGAGGAGGTGATCCAGTTCCTATGCTGGAACCACTACTGTGGA 880
OY 244 LeuTrpProGlnSerGluProGlnValLysAlaValAlaSerPheLeuArgArgAsnIle 263
DB 881 CTTTATCTCTGATGAGAACCGAAGTCAAGGCACTGGCTAGTCTTCTGAGAACAAATATC 940
OY 264 AsnGlnIleLysAlaTyrrIleSerMetHisSerTrpSerGlnHisIleValPheProTyrr 283
DB 941 AACCAAGTTTAAACATACATCAGCATCATTCATCCAGCATATATAGTGTTCATAT 1000
OY 284 SerTrpThrArgSerLysSerLysAspHisGlnGluLeuSerLeuValAlaSerGluAla 303
DB 1001 TCTCATACAGAGTAAACCAACCAACCAAGCACTGCTCTAGTAGCAGTAGGAACA 1060
OY 304 ValArgAlaIleAspLysTrpSerLysAsnThrArgTrpThrHisGlyHisGlySerGlu 323
DB 1061 GTTCGTGCTATTGAGAAACTAGTAAATAATACACGATATACATGCGCTGCTCGAA 1120
OY 324 ThrLeuTyrrLeuAlaProGlyGlyGlyAspAspTrpIleTyrrAspLeuGlyIleLysTyrr 343
DB 1121 ACCTTATACCTACTCTCTGAGGTGGAGCATGTGATCATGATTTGGGCATCAATAT 1180
OY 344 SerPhe-----Th 346

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DB 1181 TCGTTTACAACTGAACTTCGAGATACGGGCAACATACGAGATTCTGTCGCGAGCGTTAC 1240
OY 346 rSerAsnProProValGluLysLeuLeuProLeuSerLeuLys 360
DB 1241 ATCAAAACCCACTGTAGAGAAAGCTTTGCGGCTGTCTCTTAA 1283

RESULT 4
US-08-277-540-2
: Sequence 2, Application US/08277540
: Patent No. 5474901
: GENERAL INFORMATION:
: APPLICANT: Drayna, Dennis T., Baton, Dan L.
: TITLE OF INVENTION: No. 5474901el Plasma Carboxypeptidase
: NUMBER OF SEQUENCES: 8
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Genentech, Inc.
: STREET: 460 Point San Bruno Blvd
: CITY: South San Francisco
: STATE: California
: COUNTRY: USA
: ZIP: 94080

COMPUTER READABLE FORM:
: MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: patin (Genentech)

CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/277,540
: FILING DATE: 19-JUL-1994
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/167727
: FILING DATE: 15-DEC-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 07/959944
: FILING DATE: 14-OCT-1992
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 07/649591
: FILING DATE: 01-FEB-91
: ATTORNEY/AGENT INFORMATION:
: NAME: Hasak, Janet E.
: REGISTRATION NUMBER: 28,616
: REFERENCE/DOCKET NUMBER: 6899D1C1D1
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415/225-1896
: TELEFAX: 415/952-9881
: FAX: 910/371-7168
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1749 bases
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: US-08-277-540-2

Alignment Scores:
Pred. No.: 3,51e-219 Length: 1749
Score: 1832.00 Matches: 357
Percent Similarity: 86.27% Conservative: 1
Best Local Similarity: 86.02% Mismatches: 2
Query Match: 95.87% Indels: 55
DB: 1 Gaps: 2

US-09-980-881A-2 (1-360) x US-08-277-540-2 (1-1749)
OY 1 MetLysLeuGlnSerLeuAlaValLeuValProIleValLeuPheCysGlnGlnHisVal 20
DB 41 ATGAACCTTTGACGCTTCAGCTCTTGTACCATTTGTTCTCTGTCGACGACGATGTC 100
OY 21 PheAlaPheGlnSerGlyGlnValLeuAlaLeuProArgThrSerArgGlnValGln 40
DB 101 TTCGGTTCAGAGTGGCCAAAGTTCTAGCTGCTTCTCTAGAACCTCTAGGCAAGTTTCAA 160

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QY 41 ValIleuGlnAsnLeuThrThrTyrGluIleValIleuTrpGlnProValIleThrAlaAsp 60  
Db 161 GTTCTACAGAACTTACTACACATATGAGATTTGTTCTGGCAGCGGTAACAGCTGAC 220  
QY 61 LeuIleValIleLysLysGlnValHisPhePheValAsnAlaSerAspValAspAsnVal 80  
Db 221 CTTATTGTGTAAGAAAAAACAAGTCATTTTGTAAATCATCTGATGTCGACAAATGTG 280  
QY 81 LysAlaHisLeuAsnValSerGlyIleProCysSerValIleuLeuAlaAspValGluAsp 100  
Db 281 AAGGCCATTAAATGTGACCGGAATTCATGCAAGTCTTTGCTGGCAGACGTTGAGAT 340  
QY 101 LeuIleGlnGlnIleSerAsnAspThrValSerProArgAlaSerAlaSerTyrTyr 120  
Db 341 CTTATTCAACAGCAGATTTCCACAGACAGCAGTACGCCCGCAGCTCCGATGCTACTAT 400  
QY 121 GluGlnIleThrHisSerLeuAsnGluIleTyrSerTrpIleGluPheIleThrGluArgHis 140  
Db 401 GAACAGATACACACACAAATGAATCTATCTTGATGAATTTATTAAGTGAAGGCAT 460  
QY 141 ProAspMetLeuThrLysIleHisIleGlySerSerPheGluTyrProLeuTyrVal 160  
Db 461 CCGATATGCTTACAAAAATCCACATTGGATTCCTCATTTAGAAAGTACCACCTTATGTT 520  
QY 161 LeuLysValSerGlyLysGlnIleThrAlaLysAsnAlaIleTrpIleAspCysGlyIle 180  
Db 521 TTTAAGGTTCTGGAAAAAGAACAGCAAAATGCCATGATGATGACTGTGATC 580  
QY 181 HisAlaArgGluTrpIleSerProAlaPheCysLeuTrpPheIleGlyHis----- 197  
Db 581 CATGCCAGAAATGAGATCTCCTGCTTCTGTTGTTCAATAGCCATTAATCTCAA 640  
QY 197 ----- 197  
Db 641 TTCTATGGGTAATAGGCAATATACCAATCTCTGAGCCTTGATTTCTATGTTATG 700  
QY 198 -----AsnArgMetTrpArgLys 203  
Db 701 CCGGTGTTAATGTGACGCTTATGACTACTCATGAAAAAGATCGAATGTGAGAAAG 760  
QY 204 AsnArgSerPheTyrAlaAsnAsnHisCysIleGlyThrAspLeuAsnSerAsnPheVal 223  
Db 761 AACGTTCTTCTATGCGAAACATTCATTCATGCGAACACACCGAATAGCAACTTTCCT 820  
QY 224 SerLysHisTrpCysGlnGluGlyAlaSerSerSerSerCysSerGluTrpTyrCysGly 243  
Db 821 TCCAAACACTGCTGTGAGAAAGTGCATCCAGTTCTCATGCTCGGAAACCTTACTGTGA 880  
QY 244 LeuTyrProGluSerGluProGluValLysAlaValAlaSerPheLeuArgAsnIle 263  
Db 881 CTTATCTCTAGTCAGAACCAAGAGTGAAGAGTGTGCTGTTCTTGAGAGAAATATC 940  
QY 264 AsnGlnIleLysAlaTyrIleSerMetHisSerTyrSerGlnHisIleValPheProTyr 283  
Db 941 AACCCAGTTTAAACATACATCAGATGCATTCATCCAGCATATAGTGTTCATAT 1000  
QY 284 SerTyrThrArgSerLysSerLysAspHisGlnGluLeuSerLeuValAlaSerGluAla 303  
Db 1001 TCTATATACAGAAAGTAAAGCAAGACCATGAGCACTGCTCTAGTAGCCAGTGAAGCA 1060  
QY 304 ValArgAlaIleAspLysTrpSerLysAsnThrArgTyrThrHisGlyHisGlySerGlu 323  
Db 1061 GTTCGTCTATTGAGAAACTAGTAAATAACAGTATACACATGCGCATGCGTTCAGAA 1120  
QY 324 ThrLeuTyrLeuAlaProGlyLysGlyAspAspTrpIleTyrAspLeuGlyIleLysTyr 343  
Db 1121 ACCTTATACAGTACCTCTGAGGAGTGGCAGCATTTGATATGATTTGGGATCAATAATAT 1180  
QY 344 SerPhe-----Thr 346  
Db 1181 TCGTTTACAATTGACTTCGAGATAGCGGCACATAGCGATTCTTGCTGCGGAGCGTTTAC 1240

QY 346 rSerAsnProProValGluLysLeuLeuProLeuSerLeuLys 360  
Db 1241 ATCAAAACCACCTGTAGAGAGCTTTGCGCGTGTCTCTAATA 1283

RESULT 5  
US-08-430-787A-2  
; Sequence No. 5593674  
; Patent No. 5593674  
; GENERAL INFORMATION:  
; APPLICANT: Drayna, Dennis T., Eaton, Dan L.  
; TITLE OF INVENTION: No. 5593674el Plasma Carboxypeptidase  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Genentech, Inc.  
; STREET: 460 Point San Bruno Blvd  
; CITY: South San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94080  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: patin (Genentech)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/430,787A  
; FILING DATE: 27-APR-1995  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/277,540  
; FILING DATE: 14-OCT-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/649591  
; FILING DATE: 01-FEB-91  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Hasak, Janet E.  
; REGISTRATION NUMBER: 28,616  
; REFERENCE/DOCKET NUMBER: 689D1C1D1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415/225-1896  
; TELEFAX: 415/952-9881  
; TELEX: 910/371-7168  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1749 bases  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-08-430-787A-2

Alignment Scores:  
Pred. No.: 3,51e-219 Length: 1749  
Score: 1832.00 Matches: 357  
Percent Similarity: 86.27% Conservative: 1  
Best Local Similarity: 86.02% Mismatches: 2  
Query Match: 95.87% Indels: 55  
DB: Gaps: 2

US-09-980-881a-2 (1-360) x US-08-430-787A-2 (1-1749)

QY 1 MetLysLeuCysSerLeuAlaValLeuValProIleValLeuPheCysGluGlnHisVal 20  
Db 41 ATGAAGCTTGTGACACCTTGACAGTCTGTGATCCCATTTCTCTGTGAGCAGCATGTC 100  
QY 21 PheAlaPheGlnSerGlyGlnValLeuAlaValLeuProArgTrsArgGlnValGln 40  
Db 101 TTGCGGTTTCAGACTGGCAGCAATTTCTAGCTGCTTCTTCAGAACCTCTAGGCAAGTTCAA 160

QY 41 ValLeuGlnAsnLeuThrThrThrGluIleValLeuTrpGlnProValThrAlaAsp 60  
Db 161 GTTCTACAGAACTTACTACATATGATGTTCTCTGCGACCGGTAACTGAC 220  
QY 61 LeuIleValLysLysGlnValHisPhePheValAsnAlaSerAspValAspAsnVal 80  
Db 221 CTTATTGTGAAAGAAAACAGTCAATTTTGTAAATGCATCTGATGTCAGCAATGTG 280  
QY 81 LysAlaHisLysAsnValSerGlyLeuProCysSerValLeuLeuAlaAspValGlnAsp 100  
Db 281 AAGGCCATTTAAATGTGAGCGGATTTCCATGCTGCTGTCGAGACGCGTGAAGAT 340  
QY 101 LeuIleGlnGlnIleLysAsnAspThrValSerProArgAlaSerAlaSerTyrTyr 120  
Db 341 CTTATTCAACAGCAGATTTCCAAACAGACAGTCCCGCGCGCTCCGATCTGATCAT 400  
QY 121 GluGlnTyrHisSerLeuAsnGlnIleTyrSerTrpIleGluPheIleThrGluArgHis 140  
Db 401 GACAGTATCACTCACTAAATCAATCTTGTGATGAAATTTATTAAGTGAAGGCAT 460  
QY 141 ProAspMetLeuThrLysIleHisIleGlySerSerPheGluLysTyrProLeuTyrVal 160  
Db 461 CCTGATATGCTTACAAAATCCACATTTGATCCTCATTTGAGAACTACCCATCTATGTT 520  
QY 161 LeuLysValSerGlyLysGluGlnThrAlaLysAsnAlaIleTrpIleAspCysGlyTle 180  
Db 521 TTTAAAGTTTCTGAAAAGAACAAACACCAAAATGCCATATGATGATGCTGGAATC 580  
QY 181 HisAlaArgGluTrpIleSerProAlaPheCysLeuTrpPheIleGlyHis 197  
Db 581 CATGCCAGAGATGATCTCTCCGCTTCTGCTTGTGTTCTATAGGCCATATATCACTAA 640  
QY 197 197  
Db 641 TTCTATGGGATTAAGGCAATATACCAATCTCTGAGGCTTGTGATTTCTATGTTATG 700  
QY 198 198  
Db 701 CCGGCGCTTATGTGACGCTTATGACTACTCATGAAAGAAATCCAAATGTGAGAAAG 760  
QY 204 AsnArgSerPheTyrAlaAsnAsnHisCysIleGlyThrAspLeuAsnSerAspPheVal 223  
Db 761 AACGGTTCTTCTATGCGAACATCATTCATTCGGAACAGCCGATAGAGAACTTTGCT 820  
QY 224 SerLysHisTrpCysGluGluGlyAlaSerSerSerCysSerGluThrTyrCysGly 243  
Db 821 TCCAAACACTGCTGTGAGGAGGTGCATCCAGTTCCTCATGCTCGAAACCTACTGTGGA 880  
QY 244 LeuTyrProGluSerGluProGluValLysAlaLysPheLeuAspArgAsnIle 263  
Db 881 CTTTATCTCTAGTCAAGAACCAAGAGTGAAGCACTGCTAGTTCTTGAGAGAAATATC 940  
QY 264 AsnGlnIleLysAlaTyrIleSerMetHisSerTyrSerGlnHisIleValPheProTyr 283  
Db 941 AACGAGATTAAAGCATCATCATGATCATTCATCCAGCATATATAGTGTTCCTAT 1000  
QY 284 SerTyrThrArgSerLysSerLysAspHisGluLeuSerLeuValAlaSerGluAla 303  
Db 1001 TCCATATCAGGAAGTAAACCAAGACCATGAGAACTGCTCTAGTACAGCAGAGCA 1060  
QY 304 ValArgAlaIleAspLysThrSerLysAsnThrArgTyrThrHisGlyHisGlySerGlu 323  
Db 1061 GTTCGTCTCTATGAGAAACTAGTAAATAATACACAGATATACACATGGCCATGGCTCGAA 1120  
QY 324 ThrLeuTyrLeuAlaProGlyGlyGlyAspAspTrpIleTyrAspLeuGlyIleLysTyr 343  
Db 1121 ACCTTATACCTACTCTCTGAGGTGGGAGCATTTGATCTATGATTTGGGCATCAATAT 1180  
QY 344 SerPhe 1180  
Db 1181 TCGTTTACAAATTAAGTTCGAGATACGGGCACATACGATTTCTTGTCCGCGAGCGTTAC 1240  
QY 346 rSerAsnProProValGluLysLeuLeuProLeuSerLeuLys 360

Db 1241 ATCAAAACCCACTGTAGAGAGCTTTTGGCGCTGTCTCTAATAA 1283  
RESULT 6  
US-08-696-139-1  
Sequence 1, Application US/08696139  
Patent No. 5672496  
GENERAL INFORMATION:  
APPLICANT: Fayerman, Jeffrey T.  
APPLICANT: Greenen, David P.  
APPLICANT: Hersberger, Charles L.  
APPLICANT: Larson, Jeffrey L.  
APPLICANT: Sterner, Jane L.  
APPLICANT: Zhang, Haichao  
TITLE OF INVENTION: DNA SEQUENCES ENCODING PORCINE  
NUMBER OF INVENTION: PANCREATIC CARBOXYPEPTIDASE B  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Eli Lilly and Company  
STREET: Lilly Corporate Center  
CITY: Indianapolis  
STATE: Indiana  
COUNTRY: United States of America  
ZIP: 46285  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/696,139  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/153,258  
FILING DATE: 16-NOV-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Gaylo, Paul J.  
REGISTRATION NUMBER: 36,808  
REFERENCE/DOCKET NUMBER: X-8681  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (317) 276-0756  
TELEFAX: (317) 276-3861  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1215 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..1215  
US-08-696-139-1  
Alignment Scores:  
Pred. No.: 3,22e-70  
Score: 640.50  
Percent Similarity: 54.29%  
Best Local Similarity: 37.67%  
Query Match: 35.52%  
DB: 1  
Gaps: 6  
US-09-980-881a-2 (1-360) x US-08-696-139-1 (1-1215)  
QY 23 PheGlnSerGlyGlnValLeuAlaLeuProValGlnValGlnValLeu 42  
Db 28 TTTGAGAGGGGAGAGGTTTCCGTGCAATGTTGAAGATGAATAATGACATCAGCTTACTC 87  
QY 43 GlnAsnLeuThrThrThrTyrGluIleValLeuTyrGlnProValThrAlaAspLeu 62  
Db 88 CATGACTTGCCAGCAGCAGCAGATTCCTTGTGAAACCAAGATTCTGTACACCAATTC 147

Oy	63	VallyslYslYsglVlaVhIsPhepPeVlaAsnASeSaValAspVaIsnVlaYslA	82
Db	148	AAACCTCAGACTACAGTTGACTTCCTCGTGTGAAGCAAGAAATATTTGGCTGTGGAAGAC	207
Oy	83	HisLeuasnValSerGlyIleProCysSerValLeuLeuAlaAspValGluAspLeuIle	102
Db	208	TTTCTGGAGCAGATGAATGACATACATATATGATATGATCATTAACACCTGATCTGTGCTC	267
Oy	103	GlnGlnGlnIleSerAsnAspThrValSerProArgAlaSerAlaSerIleTyrGluGln	122
Db	268	GAGGCTCAGTTTGACACCAAGATC-----CGTACACCTGGACACAGTTATGAGAG	318
Oy	123	TyrHisSerLeuasnGlnIleTyrSerTrpIleGluPheIleThrGluArgHisProasp	142
Db	319	TACAAACAACTGGAAAGACGATCGAGCCGTGGACTACACAGTACACCAAGTAAATCTCAAC	378
Oy	143	MetLeuThrIysIleHisIleGlySerSerPheGluLysTyr-ProLeuTyrValLeuLys	162
Db	379	CTCATCTCTCCACACCCACGACGACAGCTACTTTTGGAAACAAATATATCTCTCTCAAG	438
Oy	163	ValSerGlyLysGlnGlnThrAlaLysAsnAlaIleTrpIleAspCysGlyIleHisIla	182
Db	439	GTT---GCCAAACCTGGACCAAAATTAAGCCCTGCATTTTATGAGACTGTGTTCCATCTCC	495
Oy	183	ArgGlnTrpIleSerProAlaPheCysLeuTyrPheIle-----	195
Db	496	AGAGATGGATTTTCCATGCAATTTTGGCAGGTGTTGTGAGAGAGGCTGTTCTACATAT	555
Oy	195	-----	195
Db	556	GGATATGAGAGCTCATGACAGAAATCTCTACACAGCTAGACTTTATGCTTGGCTGTG	615
Oy	196	-----GlyHis-----AsnArgMetTrpArgLysAsnArg	205
Db	616	CTCAATATTTGATGGCTTACATCTACCTACCTGGACCAAGACCGAATGGAGAAAGCCGC	675
Oy	206	SerPheTyrAlaAsnAsnHisCysIleGlyThrAspLeuAsnSerAsnPheValSerLys	225
Db	676	TCTACCAATGCTGGAACTACTCTCATTTGGGCACAGACCCCAACAGAAATTTT--GATGCT	732
Oy	226	HisTrpCysGlnGlnGlyAlaSerSerSerCysSerGluThrTyrCysGlyLeuTyr	245
Db	733	GGGGGTGACAAACTGGAGGCTCTACAGACCCCTGGGATGAGACACTTACGTGATCTGCT	792
Oy	246	ProGluSerGluProGluValLysAlaValAlaSer-PheLeuArgArgAsnIleAsnGln	265
Db	793	GCAAGCTCTGMAAAAGACCAAGAGCCCTGCGATTTTATACGGAACACCTCTCCCTCC	852
Oy	266	IleLysAlaTyrIleSerMetHisSerTyrSerGlnHisIleValPheProTyrSerTyr	285
Db	853	ATCAAAGCATACCTGACGATCCACTCATATCTTCCACAGATGATATCTCAACCTTATTCGAT	912
Oy	286	ThrArgSerLysSerLysAspHisGlnGluLeuSerLeuValAlaSerGluValAlaValArg	305
Db	913	GATTACAAACTCCCGCAGAACATGCTGAGTGAATTAACCTGGCTTAAGGCTCCGTGA	972
Oy	306	AlaIleAspLysThrSerLysAsnThrArgTyrThrHisGlyHisIleGlySerGluThrLeu	325
Db	973	GAACT---GCTACACTGTATGGCCCAAGTACATACATTAAGGCCCGGACCTACCAACATCT	1029
Oy	326	TyrLeuAlaProGlyGlyGlyAspAspTrpIleTyrAspLeuGlyIleLysTyrSerPhe	345
Db	1030	TATCTCTGCTGCTGGGGCTCTGATGACTGGCGCTTAAGACCAAGATCAATATTCCTTC	1089
Oy	346	Thr 346	
Db	1090	ACC 1092	
RESULT 7			
US-08-860-882A-56			
; Sequence 56 Application US/08860882A			
; Patent No. 5985281			
; GENERAL INFORMATION:			

```

APPLICANT: TAYLORSON, CHRISTOPHER JOHN
APPLICANT: EGGELOTE, HENDRIKUS JOHANNES
APPLICANT: TARAGOVA-FIOL, ANTONIO
APPLICANT: RABIN, BRIAN ROBERT
APPLICANT: BOYLE, FRANCIS THOMAS
APPLICANT: HENNAM, JOHN FREDERICK
APPLICANT: BLAKELEY, DAVID CHARLES
APPLICANT: MARSHAM, PETER ROBERT
APPLICANT: HEATON, DAVID WILLIAM
APPLICANT: DAVIES, DAVID HOW
TITLE OF INVENTION: CHEMICAL COMPOUNDS
NUMBER OF SEQUENCES: 77
CORRESPONDENCE ADDRESS:
ADDRESSEE: PILLSBURY, MADISON & SUTRO
STREET: 1100 NEW YORK AVENUE, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: IBM compatible
OPERATING SYSTEM: PC-DOS/MS-DO$
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/O8/86O, 882A
FILING DATE: JUNE 23, 1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: DONALD J. BIRD
REGISTRATION NUMBER: 25,323
REFERENCE/DOCKET NUMBER: 9901/238653
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 861-3027
TELEFAX: (202) 822-0944
TELEX: 6174627 CUSH
INFORMATION FOR SEQ ID NO: 56:
SEQUENCE CHARACTERISTICS:
LENGTH: 1263 bases
TYPE: nucleic acid
STRANDNESS: single
TOPOLOGY: linear
US-O8-860-882A-56

Alignment Scores:
Pred. No.:      5,31e-70          Length:       1263
Score:           639,.00         Matches:        135
Percent Similarity:    53.83%     Conservative:   69
Best Local Similarity:    35.62%     Mismatches:   131
Query Match:         33.44%        Indels:         44
DB:                  2              Gaps:            7

US-O9-980-881A-2 (1-360) x US-O8-860-882A-56 (1-1263)
Yy      6 leuaValleluvalProllelualLeuluhecyglunghisVlaPheala---Phegin 24
      ||| |||||||| :::: ||| |||| |::::: |||
Db      4 cttcttggttgcggtaactgcccctggccatcgttcatacgtagtgtgaacaccttgaa 63
                :::|||
Yy      25 sercluglnalaleudlaladialeuprolgrhtsrerargninalgnivalleguinasn 44
      :::|||
Db      64 gscgagagggtgccgtccgctaagaaccgtgaacaattcaaatcacattaacatcatccgag 122
                :::|||
Yy      45 leuthrtlrtyrlyguillilealleutprlinprovalthrilaasrylliealllys 64
      ||| ::::||| ::::||| |||:::| |::: |||
Db      124 ttggccacacagaccaccaattgatcttgccaagccagatatcttgcaacaanaatcaact 183
                :::|||
Yy      65 lylstsglnlavlhisphevevAlaspnaselaseravualaaprasnaellysalanlsieu 84
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      184 cacagtacagttgacttcocgtttaagcsanabaratctgcactgttggsaganatgttsta 243
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Yy      85 asnvalesrgylllepocysservalleunulaaspyvalgusarpleulliegInln 104
      ::::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |::: |:::
Db      244 AAGCGAAATGAACATAACAAGGTACTGTAAAGCAACTGAGAANAATGGTGTCGAGCCT 303
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Db 415 TCTCGCAGTGTATATCGAACAACATTGAGGACGGCTATTACCTCGTGAAGTT--- 471  
Qy 165 G1YLSGLUGLInThrAlaIysAsnAlaIleTPrIleAspCysGlyLeuHisAlaArgIu 184  
Db 472 GGCAGAACTGACAAATAATAGCCTGCATTTCATGACTGTGGTTCCATGCCAGAGAG 531  
Qy 185 TPrIleSerProAlaIlePheCysLeuTPrIlePheIle----- 195  
Db 532 TGGATTTCCTCGCATCTTCGCCAGTGTGTGAAGAGAGCGCTGTCTACTATGACGT 551  
Qy 195 ----- 195  
Db 592 GAGATCCAGTGCAGACAGCTTCTGCACAAGTAGACTTTATGCTCGCTGCTGCAT 651  
Qy 196 -----GlyHis-----AsnArgMetIrpArgIysAsnArgSerPhe 207  
Db 652 ATTGATGGCTACATCTACACCTCGGACCAAGAGCGGATTTGGAGAAAGACTCGCTCAC 711  
Qy 208 TPrAlaAsnAsnHisCysIleGlyThrAspLeuAsnSerAsnPheValSerIysHisTPr 227  
Db 712 CATACTGATCTAGCTGATGCGATGGACAGACCCACAGAAATTTT---GATGCTGTTGG 768  
Qy 228 CysGluGluGlyAlaSerSerSerCysSerGluThrTyrCysGlyLeuTyrProGlu 247  
Db 769 TGTGAATTTGGAGCCCTCGAAGAACCCCTGTGATGAACCTACTGTGACCTGCCGACAG 828  
Qy 248 SerGluProGluValIysAlaValaIaSerPheLeuArgArgAsnIleAsnGlnIleIys 267  
Db 829 TGTGAAGAGAAACCAAGCCCTGGCTGTATTCATCCGACAAACTCTCTTCATCAGAG 888  
Qy 268 AlaTyrIleSerMetHisSerTyrSerGlnHisIleValPheProTyrSerTyrArg 287  
Db 889 GCATATCTGACATCATCAGCTGACTCCCAATGATGATCTACCTTACATATGCTTAC 948  
Qy 288 SerIysSerIysAspHisIleGluLeuSerLeuValAlaSerGluAlaValaIaGlaIle 307  
Db 949 AAACCTGGTGAAGAACATCTGATGTAATGCCCTGCTAAACCTACTGTGAAGAACTT 1008  
Qy 308 AspIysThrSerIysAsnThrArgTyrThrHisGlyHisGlySerGluThrLeuTyrLeu 327  
Db 1009 ----GCCCTACCTGACCGGACCAAGTACATATGCGCCGCGGACTACACAACTATCT 1065  
Qy 328 AlaProGlyGlyAlaAspAspTPrIleTyrAspLeuGlyIleIysTyrSerPheThr 346  
Db 1066 GCTGCTGGGGCTGTGACGACTGGCTTATGACCAAGATCAGATATCTCTCAC 1122

RESULT 9  
US-08-860-882A-71  
Sequence 71, Application US/08860882A  
Patent No. 5985281  
GENERAL INFORMATION:  
APPLICANT: TAYLORSON, CHRISTOPHER JOHN  
APPLICANT: EGGELTE, HENDRIKUS JOHANNES  
APPLICANT: TARRAGONA-FIOL, ANTONIO  
APPLICANT: RABIN, BRIAN ROBERT  
APPLICANT: BOYLE, FRANCIS THOMAS  
APPLICANT: HENNAM, JOHN FREDERICK  
APPLICANT: BLAKELY, DAVID CHARLES  
APPLICANT: MARSHAM, PETER ROBERT  
APPLICANT: HEATON, DAVID WILLIAM  
APPLICANT: DAVIES, DAVID HOW  
TITLE OF INVENTION: CHEMICAL COMPOUNDS  
NUMBER OF SEQUENCES: 77  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: PILLSBURY, MADISON & SUTRO  
STREET: 1100 NEW YORK AVENUE, N.W.  
CITY: WASHINGTON  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM compatible

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/860,882A  
FILING DATE: JUNE 23, 1997  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: DONALD J. BIRD  
REGISTRATION NUMBER: 25,323  
REFERENCE/DOCKET NUMBER: 9901/238653  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 861-3027  
TELEFAX: (202) 822-0944  
TELEX: 6174627 CUSH  
INFORMATION FOR SEQ ID NO: 71:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1284 bases  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-860-882A-71

Alignment Scores:  
Pred. No.: 4.75e-69 Length: 1284  
Score: 631.50 Matches: 129  
Percent Similarity: 54.57% Conservative: 68  
Best Local Similarity: 35.73% Mismatches: 121  
Query Match: 33.05% Indels: 43  
DB: Gaps: 6

US-09-980-881A-2 (1-360) x US-08-860-882A-71 (1-1284)

Qy 23 PheGlnSerGlyGlnIleuAlaIaIeProArgThrSerArgGlnValGlnIleu 42  
Db 85 TTTGAAGCGCAGAGGTGTTCCCTGTAACTGGAAGATGAATAATACATTACATTAATC 144  
Qy 43 GlnAsnLeuThrThrTyrGluIleValaIleuTPrGlnProValThrAlaAspLeuIle 62  
Db 145 CGGAGTGTGGCCAGCAGACCCAGATTGACTTCTGGAAGCAGATTCGTGCACAAATC 204  
Qy 63 ValIlyLysIleGlnValHisPhePheValAsnIleSerAspValaIysAla 82  
Db 205 AAACCTCACAGTACAGTGTGCTTCCTGTTAAAGCAGAGATCTCTCATCTGGAGAAAT 264  
Qy 83 HisLeuAsnValSerGlyIleProCysSerValaIleuAlaAspValaIysAlaIle 102  
Db 265 GTTCTAAGCAGATACACTACATACAGTACTGATTAAGCAACCTGAGAAATGTGTC 324  
Qy 103 GlnGlnGlnIleSerAsnAspThrValSerProArgAlaSerAlaSerTyrTyrGluGln 122  
Db 325 GAGCTCAGTTGTATAGCGGGTT-----CGTGAACAGGACACAGTTATGAGAG 375  
Qy 123 TyrHisSerLeuAsnGluIleTyrSerTPrIleGluPheIleThrGluArgHisProAsp 142  
Db 376 TACACACAGTGGGAAACAGATGAGCGCTTGACATCAACAAGTCCCACTGGAATCCAGCC 435  
Qy 143 MetLeuThrIysIleHisIleGlySerSerPheGlyLysTyrProLeuTyrValaIys 162  
Db 436 CTATCTCTCGCAGTGTATTCGAGACCACTTGAAGAGCGCCTTATTAACCTCGTGAAG 495  
Qy 163 ValSerGlyLysGluGlnThrAlaIysAsnAlaIleTPrIleAspCysGlyLeuHisAla 182  
Db 496 GTT---GGCAACCTGAGCAAAATAATAGCCCTGCCATTTTCATGACGTGTGTTCCATGCC 552  
Qy 183 ArgGluTPrIleSerProAlaPheCysLeuTPrIle----- 195  
Db 553 AGAGAGTGTATTCCTCGATTCGCAATTCGCAGGTGTGTGAAGAGAGCGCTGTCTACTAT 612  
Qy 195 ----- 195  
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Qy 196 -----GlyHis-----AsnArgMetIrpArgIysAsnArg 205











Score:	604.00	Matches:	125
Percent Similarity:	60.14%	Conservative:	44
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Query Match:	31.61%	Indels:	41
DB:	5	Gaps:	5

US-09-980-881A-2 (1-360) x PCT-US96-00995-5 (1-927)

[illegible]

RESULT 15  
US-08-696-139-3  
: Sequence 3, Application US/08696139  
: Patent No. 5672496  
: GENERAL INFORMATION:

```

? APPLICANT: Fayerman, Jeffrey T.
? APPLICANT: Greenen, David P.
? APPLICANT: Hersberger, Charles L.
? APPLICANT: Larson, Jeffrey L.
? APPLICANT: Sternner, Jane L.
? APPLICANT: Zhang, Haichao
? TITLE OF INVENTION: DNA SEQUENCES ENCODING PORCINE
? NUMBER OF INVENTIONS: PANCREATIC CARBOXYPEPTIDASE B
CORRESPONDENCE ADDRESS:
ADDRESS: Eli Lilly and Company
STREET: Lilly Corporate Center
CITY: Indianapolis
STATE: Indiana
COUNTRY: United States of America
ZIP: 46285
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/696,139
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/153,258
FILING DATE: 16-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Gaylo, Paul J.
REGISTRATION NUMBER: 36,808
REFERENCE/DOCKET NUMBER: X-8681
TELECOMMUNICATION INFORMATION:
TELEPHONE: (317) 276-0756
TELEFAX: (317) 276-3861
INFORMATION FOR SEQ ID NO.: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 921 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURES:
NAME/KEY: CDS
LOCATION: 1..921
US-08-696-139-3
Alignment Scores:
Pred. No.:      2,41e-62          Length:    921
Score:         576.00           Matches:   116
Percent Similarity: 59.09%     Conservative: 40
Best Local Similarity: 43.94% Mismatches:   68
Query Match:    30.14%        Indels:    40
DB:             1              Gaps:      5
US-09-980-881A-2 (1-360) x US-08-696-139-3 (1-921)
OY - 120 TyrlglunlrrHslserleuasnlrllertyserrprllegrlphelethrngluarg 139
Db 16 TatagagaGtRACAAACAATCGGAAGCACTGGACTTGTGCATAAGTCACCAGTGAA 75
OY 140 HisProasPMeLteurhlrylsileHisilleglySersePrhegltulyTyrlProLeutyr 159
Db 76 AAtCCAGGCCCATCTCTCGCACGCCATCGAGAActacattttTAGGAACAcatatTTATAC 135
OY 160 ValletulsValSerglyLySGluGlntThralAllysasnalailetpprialeaspCySGIy 179
Db 136 CTCCTCAAAGT---GCCAAAACCTGGACCCAAttAACcctccCATTTTCATGAcTGTGT 192
OY 180 lHeIsAlnarAggtUrtprieserProAlaphecylseurtPhelle----- 195
Db 193 TTCcaccCaAGanTAgaTtTTTTCCCATGCATTTTTGCCAGtgGtTTCAGAGAGAGcGTtT .252
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QY 195 ----- 195
Db 253 CTCACCTATGATGATGAGTCACATGACAGAAATTCCTCAACAAGCTAGACTTTATATGTC 312
QY 196 ----- -GLYHIS----- -AsnArgMetTrpArg 202
Db 313 TTGCTGTGTCATATTTGATGTGGCTACATCTACACCTGGACCAAGAACGGAATGTGAGA 372
QY 203 LysAsnArgSerPheTyrAlaAsnAsnHisCysIleGlyThrAspLeuAsnSerAsnPhe 222
Db 373 AAGACCCGGCTCTACCAATGCTGGAACCTACCTGATGGCAGACACCCCAACAATTTT 432
QY 223 ValSerLysHisTrpCysGluGlyAlaSerSerSerCysSerGluThrTyrCys 242
Db 433 ---GATGCTGGGTGTCAGCACTGCCAGACCTCTACAGACCCCTGCGATGAGACTTACTGT 489
QY 243 GlyLeuTyrProGluSerGluProGluValLysAlaValAlaSerPheLeuArgAsn 262
Db 490 GGATCTGCTGCAGAGTCTGAAAAAGAGACCAGGCCCTGGTGTATTTTATACGCAACAC 549
QY 263 IleAsnGlnIleLysAlaTyrIleSerMetHisSerTyrSerGlnHisIleValPhePro 282
Db 550 CTCTCCTCATCAAGCATACCTGACGATCCACTCATCTCAACATGATGACTTAACCT 609
QY 283 TyrSerTyrThrArgSerLysSerLysAspHisGluLeuSerLeuValAlaSerGlu 302
Db 610 TATTCTATGATTACAACCTCCCGAGAACCAATGCTGAGTTGAATTAACCTGCTAAGGCT 669
QY 303 AlaValArgAlaIleAspLysThrSerLysAsnThrArgTyrThrHisGlyHisGlySer 322
Db 670 GCCGTAAAGAACTT---GCTACACTGTATGGCACCAAGTACACATACGGCCAGGAGCT 726
QY 323 GluThrLeuTyrLeuAlaProGlyGlyGlyAspAspTrpIleTyrAspLeuGlyIleLys 342
Db 727 ACAACAATCTATCTGCTGCTGGGGCTCTGATGACTGGGCTTATGACCAAGAAATCAAA 786
QY 343 TyrSerPheThr 346
Db 787 TATTCTTTCACC 798
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Search completed: May 19, 2003, 06:22:45  
Job time : 60.0847 secs

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GenCore version 5.1.4.p5.4578  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - nucleic search, using frame\_plus.p2n model

Run on: May 19, 2003, 03:14:57 ; Search time 32.9407 Seconds  
(without alignments)  
3146.770 Million cell updates/sec

Title: US-09-980-881A-3

Perfect score: 1798  
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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Command line parameters:

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-DB=Issued\_Patents.NA -QEMT=fastap -SUFFIX=p2n.rni -MINMATCH=0.1 -LOOPEXT=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi  
-LIST=45 -DOCALLIGN=200 -THR=MAX=100 -THR\_MIN=0 -ALIGN=15  
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-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

1: Issued\_Patents.NA:\*  
2: /cgn2\_6/ptodata/1/ina/5A.COMB.seq:\*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1749.5	97.3	1625	4	US-09-813-133A-1 >FD Sequence 1, Appli
2	1732	96.3	1749	2	US-08-869-057-1 Sequence 2, Appli
3	1732	96.3	1749	1	US-07-649-591B-2 Sequence 2, Appli
4	1732	96.3	1749	1	US-08-277-540-2 Sequence 2, Appli
5	1732	96.3	1749	1	US-08-430-782A-7 Sequence 2, Appli
6	646.5	35.5	1215	1	US-08-696-139-1 Sequence 1, Appli
7	637.5	35.5	1263	2	US-08-860-882A-56 Sequence 56, Appli
8	637.5	35.5	1263	4	US-09-011-769A-38 Sequence 38, Appli
9	637.5	35.5	1284	2	US-08-860-882A-71 Sequence 71, Appli
10	637.5	35.5	1284	4	US-09-011-769A-95 Sequence 55, Appli
11	619.5	34.5	1311	4	US-09-675-305-9 Sequence 9, Appli
12	619.5	34.5	2154	4	US-09-171-945-124 Sequence 124, App

13	610	33.9	927	2	US-08-782-760-5	Sequence 5, Appli
14	610	33.9	927	1	PCR-US96-00995-5	Sequence 5, Appli
15	582	32.4	921	1	US-08-696-139-3	Sequence 3, Appli
16	571.5	31.8	2128	4	US-09-675-305-13	Sequence 13, Appli
17	567	31.5	999	2	US-08-860-882A-67	Sequence 67, Appli
18	567	31.5	999	4	US-09-011-769A-50	Sequence 50, Appli
19	567	31.5	1053	2	US-08-860-882A-64	Sequence 64, Appli
20	567	31.5	1053	4	US-08-860-882A-46	Sequence 46, Appli
21	560	31.1	1059	2	US-08-860-882A-74	Sequence 74, Appli
22	560	31.1	1059	4	US-09-011-769A-59	Sequence 59, Appli
23	559	31.1	1059	2	US-08-860-882A-77	Sequence 77, Appli
24	559	31.1	1059	4	US-09-011-769A-63	Sequence 63, Appli
25	554	30.8	1200	4	US-09-710-099-7	Sequence 7, Appli
26	549	30.5	1870	4	US-09-171-945-112	Sequence 112, App
27	534.5	29.7	1050	4	US-09-675-305-11	Sequence 11, Appli
28	527.5	29.3	1311	4	US-09-710-099-5	Sequence 5, Appli
29	516.5	28.7	1251	3	US-08-640-906-3	Sequence 3, Appli
30	516.5	28.7	1251	4	US-09-395-936-3	Sequence 3, Appli
31	491.5	27.3	1257	3	US-08-640-906-1	Sequence 1, Appli
32	491.5	27.3	1257	4	US-09-395-936-1	Sequence 1, Appli
33	467.5	26.0	945	4	US-09-710-099-3	Sequence 3, Appli
34	467.5	26.0	945	4	US-09-710-099-11	Sequence 11, Appli
35	465.5	25.9	2247	4	US-09-710-099-15	Sequence 15, Appli
36	441	24.5	1056	4	US-09-710-099-9	Sequence 9, Appli
37	441	24.5	1056	4	US-09-710-099-1	Sequence 1, Appli
38	365	20.3	55827	4	US-09-813-133A-3	Sequence 3, Appli
39	288.5	16.0	741	4	US-09-675-305-5	Sequence 5, Appli
40	210.5	11.7	591	4	US-09-331-709-2	Sequence 2, Appli
41	198.5	11.0	629	4	US-09-280-116-228	Sequence 228, App
42	169.5	9.4	515	4	US-08-998-416-125	Sequence 125, App
43	133.5	7.4	673	4	US-09-280-116-93	Sequence 93, Appli
44	116.5	6.5	2504	1	US-08-484-105-15	Sequence 15, Appli
45	116.5	6.5	2504	1	US-08-484-106-15	Sequence 15, Appli

#### ALIGNMENTS

RESULT 1  
US-09-813-133A-1  
Sequence 1, Application US/09813133A  
Patent No. 6455294  
GENERAL INFORMATION:  
APPLICANT: GAN, weiniu et al  
TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,  
FILE REFERENCE: CLO01173  
CURRENT APPLICATION NUMBER: US/09/813,133A  
CURRENT FILING DATE: 2001-06-06  
NUMBER OF SEQ ID NOS: 4  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 1  
LENGTH: 1625  
TYPE: DNA  
ORGANISM: Human  
US-09-813-133A-1

Alignment Scores:  
Pred. No.: 8.75e-210  
Score: 1749.50  
Percent Similarity: 94.38%  
Best Local Similarity: 94.38%  
Query Match: 97.30%  
DB: 4  
Gaps: 1

US-09-980-881A-3 (1-338) x US-09-813-133A-1 (1-1625)

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DB 83 TTTCAGAGTGGCAGATTCTAGCTGCTTCTCTAGACCTTAGGCACTTCAAGTTCTTA 142  
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QY 21 GlnAsnLeuThrThrTyrgluIleValLeuTrpGlnProValThrAlaAspLeuIle 40  
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143 CAGAAATCTTACTACAAACATATGAGATTGTTCTGCGCAGCCGGTAAACAGCTTATT 202  
QY 41 VallyslYslYsgInValHisPhepheValAsnAlaSerSpsValAspAsnValYsAla 60  
Db 203 GTGAAGAAAAAACAAGCTATTTTGTGTAATGATCATGTATGCAATGGAAGGCC 262  
QY 61 HisLeuAsnValSerGlyIleProCysSerValLeuLeuValAspValGluAspLeuIle 80  
Db 263 CATTTAAATGTGAGCGGAATTCATGAGTGTCTGTCTGCGCAGATGGAAGATCTTATT 322  
QY 81 GluGlnGlnIleSerAsnAspThrValSerProArgAlaSerAlaSerYrYrGluGln 100  
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QY 101 TyrHisSerLeuAsnGluIleYrSerTrpIleGluPheIleThrGluIleuArgHisProasp 120  
Db 383 TATCACTCACTAAATGAAATCTTCTTGTGATGAAATTTATATGAGAGGCAATCTCGAT 442  
QY 121 MetLeuThrLysIleHisIleGlySerSerPheGluLysTrpProLeuYrValLeuLys 140  
Db 443 ATGCTTACAAAATCCACATGTGATCTCTATTTGAGAAAGTACCACCTATATGTTTAAAG 502  
QY 141 ValSerGlyYsgGlnGlnThrAlaLysAsnAlaIleTrpIleAspCysGlyIleHisAla 160  
Db 503 GTTCTGGAAGAAACAGACAGCCAAAATGCCATATGATGACTGTGGAATCCATGCC 562  
QY 161 ArgGluTrpIleSerProAlaPheCysLeuTrpPheIleGlyHisAsnArgMetTrpArg 180  
Db 563 AGAGAAATGATCTCTCTGCTTCTCTGTGTGTATGAGCCATATGAAATGTGAGAGA 622  
QY 181 LysAsnArgSerPheYrYrAlaAsnAsnHisCysIleGlyThrAspLeuAsnArgAsn 200  
Db 623 AAGAACCGTCTTCTTATCGAACAATCATGTGATCGAACAACCTGAAATGAGAACTTT 682  
QY 201 AlaSerLysHisTrpCysGlnGluGlnValAlaSerSerSerSerGluTrpYrYrCys 220  
Db 683 GCTTCCAAACACGCTGTGTAGAGAGAGTGCATTCAGTCTCTGAGTGGAAACCTACTCT 742  
QY 221 GlyLeuYrProGluSerGluProGluValLysAlaValAlaSerPheLeuArgArgAsn 240  
Db 743 GGACTTTATCTGTAGTCAGAACACAGAAAGTGAAGGAGTGGTAGTTCTTGAAGAAAT 802  
QY 241 IleAsnGlnIleLysAlaIleYrIleSerMetHisSerYrSerGlnHisIleValPhePro 260  
Db 803 ATCAACCAATTAACCAATCAATCAATCATCTATCTCCAGCATATAGTGTCCA 862  
QY 261 TyrSerYrThrArgSerYrLysAspHisGluGluLeuSerLeuValAlaSerGlu 280  
Db 863 TATTCCTATACAGAAAGTAAAGCAAGCAACATGAGGAACGTCTCTTACTAGCCAGTGA 922  
QY 281 AlaValArgAlaIleGluLysThrSerLysAsnThrArgYrThrHisGlyHisGlySer 300  
Db 923 GCAGTTCGCTGATTTGAGAAATATGATAAATACACAGTATACACATGCCATGCTCA 982  
QY 301 GluThrLeuYrLeuAlaProGlyGlyAspAspTrpIleYrAspLeuLysIleLys 320  
Db 983 GAAACCTTATACCTACTCTGAGAGTGGGAGCAGATGATATGATTTGGGCATCAAA 1042  
QY 321 TyrSerPhe----- 323  
Db 1043 TATTCGTTTACAAATGAACTTGAGATACGGGCACATACGATTTCTGTCGGGAGCGT 1102  
QY 324 -ThrSerAsnProProValGluLysLeuLeuProLeuSerLeuLys 338  
Db 1103 TACATCAAAACCACTGTAGAGAACTTTGGCGCTGTCTTAATA 1148

## RESULT 2

US-08-869-057-1  
: Sequence 1, Application US/08869057  
: Patent No. 5985562  
: GENERAL INFORMATION:  
: APPLICANT: Morser, Michael J  
: APPLICANT: Nagashima, Mariko

TITLE OF INVENTION: Method of Detecting Thrombotic Disease  
: TITLE OF INVENTION: Risk  
: NUMBER OF SEQUENCES: 6  
: CORRESPONDENCE ADDRESS:  
: ADDRESSEE: Berlex Biosciences Legal Department  
: STREET: 15049 San Pablo Avenue  
: CITY: Richmond  
: STATE: California  
: COUNTRY: USA  
: ZIP: 94804-0099  
: COMPUTER READABLE FORM:  
: MEDIUM TYPE: Floppy disk  
: COMPUTER: IBM PC compatible  
: OPERATING SYSTEM: PC-DOS/MS-DOS  
: SOFTWARE: PatentIn Release #1.0, Version #1.30  
: CURRENT APPLICATION DATA:  
: APPLICATION NUMBER: US/08/869,057  
: FILING DATE: 03-JUN-1997  
: CLASSIFICATION: 435  
: ATTORNEY/AGENT INFORMATION:  
: NAME: Washlien, Wendy L.  
: REGISTRATION NUMBER: 36,301  
: REFERENCE/DOCKET NUMBER: 51509AUSM1  
: TELECOMMUNICATION INFORMATION:  
: TELEPHONE: 510-262-5411  
: TELEFAX: 510-262-7095  
: INFORMATION FOR SEQ ID NO: 1:  
: SEQUENCE CHARACTERISTICS:  
: LENGTH: 1272 base pairs  
: TYPE: nucleic acid  
: STRANDEDNESS: double  
: TOPOLOGY: linear  
: MOLECULE TYPE: cDNA  
: PUBLICATION INFORMATION:  
: AUTHORS: Baton, Dan L.  
: AUTHORS: Malloy, Beth E.  
: AUTHORS: Tsai, Siao P  
: AUTHORS: Henzel, William  
: AUTHORS: Drayna, Dennis  
: TITLE: Isolation, Molecular Cloning, and Partial  
: TITLE: Characterization of a No. 5985562el Carboxypeptidase B  
: JOURNAL: J. Biol. Chem.  
: VOLUME: 266  
: ISSUE: 32  
: PAGES: 21833-21838  
: DATE: No. 5985562 15-1991  
US-08-869-057-1  
Alignment Scores:  
Pred. No.: 9,19e-208 Length: 1272  
Score: 1732.00 Matches: 338  
Percent Similarity: 86.01% Conservative: 0  
Best Local Similarity: 86.01% Mismatches: 0  
Query Match: 96.33% Indels: 55  
Gaps: 2  
US-09-980-881a-3 (1-338) x US-08-869-057-1 (1-1272)  
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Db 67 TTTCAGAGTGGCCAAAGTCTAGCTGCTCTTCTAGAACCTCTAGGCAAGTCAAGTTCTA 126  
QY 21 GluAsnLeuThrThrThrTyGlnIleValLeuTrpGlnProValThrAlaAspLeuIle 40  
Db 127 CAGAAATCTTACTACAAACATATGAGATGTGTCTGTGCGACCGGTAAACAGCTGACCTTATT 186  
QY 41 VallyslYslYsgInValHisPhepheValAsnAlaSerSpsValAspAsnValYsAla 60  
Db 187 GTGAAGAAAAAACAAGTCCATTTTGTGTAATGATCATGTATGCAATGGAAGGCC 246  
QY 61 HisLeuAsnValSerGlyIleProCysSerValLeuLeuValAspValGluAspLeuIle 80













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QY 174 -----GLYHIS-----ASNAARGMETTPRARGLYSASNAARG 183
DB 646 CTCATATATTGATGGCTACATCTACACCTGGACCAAGACCGGATTTGGAGAAAGACTCGC 705
QY 184 SerPheTYrAlaAsnAsnHisCysIleGlyThrAspLeuAsnArgAsnPhaAlaSerLYs 203
DB 706 TCCACCACCATCTAGCTAGCTGATGGACAGACCCCAAGAAATTTT---GATGCT 762
QY 204 HlSTrPCySGluGluGlyAlaSerSerSerCysSerGluThyTYrCysGlyLeuTYr 223
DB 763 GGTGGTGGTGAATTTGGACCTCTCGAAACCCCTGTGATGAATCTACTGTGACCTGCC 822
QY 224 ProGluSerGluProGluValLysAlaValAlaSerPheLeuArgArgAsnIleAsnGln 243
DB 823 GCAGACTCTGAAAGAGACCAAGACCGCTGGCTGATTTATCCGCAACAACATCTTCC 862
QY 244 IleLysAlaLeuTYrIleSerMetHisSerTYrSerGlnHisIleValPheProTYrSerTYr 263
DB 883 ATCAAGCATATCTGACAAATCCACCTGATCCCAATGATGATCTACCTTACTCATAT 942
QY 264 ThrArgSerLYserLYsAspHisGluGluLeuSerLeuValAlaSerGluAlaValArg 283
DB 943 GCTTACAAACCTGCGTAGAACATGCTGAGTTGAATGCCCTGCTAAAGCTACTGTGAAA 1002
QY 284 AlaIleGluLYsThrSerLYsAsnThrArgTYrThrHisGlyHisGlySerGluThrLeu 303
DB 1003 GAACCTT---GCCCTACCTGCACGCGCACCAAGTACATATGCGCGGAGACTACAAACATC 1059
QY 304 TYrLeuAlaProGlyGlyGlyAspAspTYrPheTYrAspLeuGlyIleLysTYrSerPhe 323
DB 1060 TATCGTCTGCTGGGGCTCTGACGACTGGGCTTATGACCAAGAAATCATATTCCTTC 1119
QY 324 Thr 324
DB 1120 ACC 1122

RESULT 8
US-09-011-769A-38
Sequence 38, Application US/09011769A
Patent No. 6436691
GENERAL INFORMATION:
APPLICANT: SLATER, Anthony M.
BLAKER, David C.
DAVIES, David H.
HENNAM, John F.
HENNEQUIN, Laurent F.A.
MARSHAM, Peter R.
DOMELL, Robert J.
TITLE OF INVENTION: Chemical Compounds
NUMBER OF SEQUENCES: 87
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pillsbury Madison & Sutro, LLP
STREET: 1100 New York Ave., N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: 1.44 Mb disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: MS Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/011,769A
FILING DATE: 13-Feb-1998
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB96/01975
FILING DATE: 13-AUG-1996
APPLICATION NUMBER: GB 9612295.7
FILING DATE: 12-JUN-1996
APPLICATION NUMBER: GB 9611019.2

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; FILING DATE: 25-MAY-1996
; APPLICATION NUMBER: GB 9516810.0
; FILING DATE: 16-AUG-1995
; INFORMATION FOR SEQ ID NO: 38:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1263 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; SEQUENCE DESCRIPTION: SEQ ID NO: 38:
US-09-011-769A-38

Alignment scores:
Pred. No.: 3,74e-70 Length: 1263
Score: 637.50 Matches: 130
Percent Similarity: 54.85% Conservative: 68
Best Local Similarity: 36.01% Mismatches: 120
Query Match: 35.46% Indels: 43
DB: 4 Gaps: 6

US-09-980-881A-3 (1-338) x US-09-011-769A-38 (1-1263)
QY 1 PheGlnSerGlyGlnValLeuAlaLeuProArgThrSerArgGlnValGlnValLeu 20
DB 58 TTGAAGCGGAGAGAGGTCTCCGTGTACGTTGAAGATGAAGATACATTAACATATC 117
QY 21 GlnAsnLeuThrThrThrTYrGluIleValIleuTPGlnProValIThrAlaAspLeuIle 40
DB 118 CGCGAGTGTGGCCAGCAGCAGCAGATGACTTCTGAAACCCGATCTGTGCACAAATC 177
QY 41 ValLYsLYsGluValHisPhePheValAsnAlaSerAspValAspAsnValLYsAla 60
DB 178 AAACCTCACAGTACAGTACTCCGTGTAAAGCAAGAAATACTGTCACTGAGAGAT 237
QY 61 HisLeuAsnValSerGlyIleProCysSerValLeuLeuAlaAspValGluAspLeuIle 80
DB 238 GTTCTAAAGCAAGATGACTACATACATACAGATGATGATGATGATGATGATGATG 297
QY 81 GlnGlnGlnIleSerAsnAspThrValSerProArgAlaSerAlaSerTYrTYrGluGln 100
DB 298 GAGGCTCACTTTGATGATGCGGGTT-----CGTCAACAGCAGACAGTATATGAGAG 348
QY 101 TYrHisSerLeuAsnGluIleTYrSerTrpIleGluPheIleThGluArgHisProAsp 120
DB 349 TACAAACAGTGGGAAACATACAGGCTTGACTCAACAAAGTCCGACAGATATCCAGCC 408
QY 121 MetLeuThrLYsIleHisIleGlySerSerPheGluLYsTYrProLeuTYrValLeuLYs 140
DB 409 CTCATCTCTCGCAGTGTATCGAACCCACATTTGAGGGACGGCGCTATTACTCCTCGAAG 468
QY 141 ValSerGlyLYsGluIleThrAlaLYsAsnAlaIleTrpIleAspCysGlyIleHisAla 160
DB 469 GTT---GGCAAGCTGGGACAAATTAAGCCTGCAATTTTCAATGAGACTGGTTCCATGCC 525
QY 161 ArgGluTrpIleSerProAlaPheCysLeuTrpPheIle----- 173
DB 526 ACAGAGTGGATTTCTCGCATTTCTGCCAGTGTGTGAAGAGAGCGTTCGTACTAT 585
QY 173 ----- 173
DB 586 GGACGTGAGATCCAAAGTACAGACAGCTTCTCGACAAGTTAGACTTTATGCTCGCTGTG 645
QY 174 -----GLYHIS-----ASNAARGMETTPRARGLYSASNAARG 183
DB 646 CTCATATATTGATGGCTACATCTACACCTGGACCAAGACCGGATTTGGAGAAAGACTCGC 705
QY 184 SerPheTYrAlaAsnAsnHisCysIleGlyThrAspLeuAsnArgAsnPhaAlaSerLYs 203
DB 706 TCCACCACCATCTAGCTAGCTGATGGACAGACCCCAAGAAATTTT---GATGCT 762
QY 204 HlSTrPCySGluGluGlyAlaSerSerSerCysSerGluThyTYrCysGlyLeuTYr 223

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Db 763 GGTGGTGTGAATTTGAGCCCTCTCGAAACCCCTGTGATGAACCTACTGTGGAGCCTGCC 822  
Oy 224 ProGluSerGluProGluValLysAlaValAlaSerPheLeuArgArgAsnIleAsnGln 243  
Db 823 GCAGAGTCTGMAAAGAAACCAAGCCCTGGCTGATTTATCCGCAACAACCTCTTCC 882  
Oy 244 IleLysAlaIleThrSerMetHisSerTyrSerGlnHisIleValPheProTyrSerTyr 263  
Db 883 ATCAAGCATATCTGACATCCACCTGCTACCTCCCAATGATGATCACTTACCTCATAT 942  
Oy 264 ThrArgSerLysSerLysPheHisGluLeuSerLeuValAlaSerGluAlaValArg 283  
Db 943 GCTTACAACTCGGTGAGAACATGCTGAGTTGAATGCCCTGGCTTAAGCTACTGTGA 1002  
Oy 284 AlaIleGluLysThrSerLysAsnThrArgTyrThrHisGluValHisGlySerGluThrLeu 303  
Db 1003 GAACCT---GCCCTACTGCACGCGCACCAAGTACATATAGCCCGGAGCTACAAATC 1059  
Oy 304 TyrLeuAlaProGluLysAlaAspArgPheTyrAspLeuGluLysTyrSerPhe 323  
Db 1060 TATCCGTGCTGGGGCTCTGACGACTGAGGCTTATGACCAAGAAATCATATCTCTTC 1119  
Oy 324 Thr 324  
Db 1120 ACC 1122

RESULT 9  
US-08-860-882A-71

Sequence 71, Application US/08860882A  
Patent No. 5985281

## GENERAL INFORMATION:

APPLICANT: TAYLORSON, CHRISTOPHER JOHN  
APPLICANT: EGGELTE, HENDRIKUS JOHANNES  
APPLICANT: TARRAGONA-FIOL, ANTONIO  
APPLICANT: RABIN, BRIAN ROBERT  
APPLICANT: BOYLE, FRANCIS THOMAS  
APPLICANT: HENNAM, JOHN FREDERICK  
APPLICANT: BLAKELY, DAVID CHARLES  
APPLICANT: MARSHAM, PETER ROBERT  
APPLICANT: HEATON, DAVID WILLIAM  
APPLICANT: DAVIES, DAVID HOW  
TITLE OF INVENTION: CHEMICAL COMPOUNDS  
NUMBER OF SEQUENCES: 77  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: PILLSBURY, MADISON & SUTRO  
STREET: 1100 NEW YORK AVENUE, N.W.  
CITY: WASHINGTON  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy Disk  
COMPUTER: IBM compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/860,882A  
FILING DATE: JUNE 23, 1997  
CLASSIFICATION: 424

## ATTORNEY/AGENT INFORMATION:

NAME: DONALD J. BIRD  
REGISTRATION NUMBER: 25,323  
REFERENCE/DOCKET NUMBER: 9901/238653  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 861-3027  
TELEFAX: (202) 822-0944  
TELEX: 6174627 CUSH

## INFORMATION FOR SEQ ID NO: 71:

SEQUENCE CHARACTERISTICS:  
LENGTH: 1284 bases  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear

## US-08-860-882A-71

Alignment Scores:  
Pred. No.: 3 85e-70  
Score: 637.50  
Percent Similarity: 54.85%  
Best Local Similarity: 36.01%  
Query Match: 35.46%  
DB: 2  
Gaps: 6

## US-09-980-881A-3 (1-338) x US-08-860-882A-71 (1-1284)

Oy 1 PheGlnSerGluValLysAlaValAlaLeuProArgThrSerArgGlnValGlnValLeu 20  
Db 85 TTGAAGCGGAGAGAGGTGTTCCGTGTTAAAGTTGAAGATGAATAATCACTTACATAATC 144  
Oy 21 GlnAsnLeuThrThrThrTyrGluIleValLeuTrpGlnProValThrAlaAspLeuIle 40  
Db 145 CGCGAGTTGGCCGACGACGACGACGATTTGACTTCTGGAAGCAGATTTCTGTACACAAATC 204  
Oy 41 ValLysLysGluValHisPhePheValAsnAlaSerAspValAspAsnValLysAla 60  
Db 205 AAACCTCACAGTACAGTTACTTCCGTGTTAAAGCAGAGATATCTCACTGTGGAGAAAT 264  
Oy 61 HisLeuAsnValSerGluLysProCysSerValLeuLeuAlaAspValGluAspLeuIle 80  
Db 265 GTTCTTAAGCAGATGACATACATACATACAGGTCTGATTAAGCAACCTGGAATAATGTGGT 324  
Oy 81 GlnGlnGlnIleSerAsnAspThrValSerProArgAlaSerAlaSerTyrTyrGluGln 100  
Db 325 GAGGCTCAGTTGATGACCGGGTT-----CGTCAACAGACACAGATTAATGAGAAG 375  
Oy 101 TyrHisSerLeuAsnGlnIleTyrSerTrpIleGluPheIleThrGluArgHisProAsp 120  
Db 376 TACAACAAGTGGGAACGATGAGAGGCTTGACTACACAAAGTCCCTGAGATCCAGCC 435  
Oy 121 MetLeuThrLysIleHisIleGlySerSerPheGluLysTyrProLeuTyrValLeuLys 140  
Db 436 CTTATCTCTCGCAGTGTATTCGGAACACATTTGAGGAGCGCCCTTTTAACTCCGTGAAG 495  
Oy 141 ValSerGluLysGluIleThrAlaLysAsnAlaIleTrpIleAspCysGluIleHisAla 160  
Db 496 GTT---GGCAAGCTGGACAATAAGCCCTTCATTTGATGAGAGAGCTGTTCCTACCTAT 552  
Oy 161 ArgGluTrpLysSerProAlaPheCysLeuTrpPheIle----- 173  
Db 553 AGAGAGTGAATTTCTCTGATTTCTGCAAGTGGTGTGTAAGAGAGCTGTTCCTACCTAT 612  
Oy 173 ----- 173  
Db 613 GCAGGTGAGATCCAGTGAAGAGAGCTTCTGACAGATTAGCTTTATGTCGCTG 672  
Oy 174 -----GlyHis-----AsnArgMetLysPheArgLysAsnArg 183  
Db 673 CTCATATTTGATGCTATACATCTACACCTGAGCCAGACGCGGATTTTGGAGAAAGACTCCG 732  
Oy 184 SerPheTyrAlaAsnHisCysIleGlyThrAspLeuAsnArgAsnPheAlaSerLys 203  
Db 733 TCCACCATCTGATGATCTGATCTGATGATGATGATGATGATGATGATGATGATGATGAT 789  
Oy 204 HisTrpCysGluGluLysAlaSerSerSerCysSerGluThrTyrCysGlyLeuTyr 223  
Db 790 GGTGGTGAATTTGGAGGCTCTCGAAACCCCTGTGATGATGATGATGATGATGATGATGAT 849  
Oy 224 ProGluSerGluProGluValLysAlaValAlaSerPheLeuArgArgAsnIleAsnGln 243  
Db 850 GCAGAGTCTGMAAAGGAGACCAAGCCCTGGCTGATTTCAATCCGCAACAACCTCTTCC 909  
Oy 244 IleLysAlaIleThrSerMetHisSerTyrSerGlnHisIleValPheProTyrSerTyr 263  
Db 910 ATCAAGCATATCTGACATCCACCTGCTACCTCCCAATGATGATGATGATGATGATGATGAT 969  
Oy 264 ThrArgSerLysSerLysPheHisGluLeuSerLeuValAlaSerGluAlaValArg 283

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Db 970 GCTTACAAACGTCGTGAGAACATGCTGATGTAATGCCCTGCTAAAGCTACTGTGAAA 1029
QY 284 AAlaIleGluLysThrSerLysAsnThrArgTyrThrHisGlyHisIleSerGluThrLeu 303
Db 1030 GAACCTT---GCCTCAGTCGACGCGCACCAAGTACACATATGCGCCGAGCTCAACAAATC 1086
QY 304 TTTLeuAlaProGlyGlyLysAspPrtIleTyrAspLeuGlyIleLysTyrSerPhe 323
Db 1087 TTTCTCGCTGCTGGGGCTCTGACGACCTGCTTATGACCAAGAAATCATATTCCTTC 1146
QY 324 Thr 324
Db 1147 ACC 1149

RESULT 10
US-09-011-769A-55
; Sequence 55, Application US/09011769A
; Patent No. 6436691
; GENERAL INFORMATION:
; APPLICANT: SLATER, Anthony M.
; BLAKEY, David C.
; DAVIES, David H.
; HENNAM, John F.
; HENNEQUIN, Laurent F.A.
; MARSHAM, Peter R.
; DOWELL, Robert I.
; TITLE OF INVENTION: Chemical Compounds
; NUMBER OF SEQUENCES: 87
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pillsbury Madison & Sutro, LLP
; STREET: 1100 New York Ave., N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 1.44 Mb disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: MS Word
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/011,769A
; FILING DATE: 13-Feb-1998
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB96/01975
; FILING DATE: 13-AUG-1996
; APPLICATION NUMBER: GB 9612295.7
; FILING DATE: 12-JUN-1996
; APPLICATION NUMBER: GB 9611019.2
; FILING DATE: 25-MAY-1996
; APPLICATION NUMBER: GB 9516810.0
; FILING DATE: 16-AUG-1995
; INFORMATION FOR SEQ ID NO: 55:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1284 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1272
; NAME/KEY: mat_peptide
; LOCATION: 352..1272
; SEQUENCE DESCRIPTION: SEQ ID NO: 55:
US-09-011-769A-55

Alignment Scores: 3.85e-70 Length: 1284
Pred. No.: 637.50 Matches: 130

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Percent Similarity: 54.85% Conservatve: 68
Best Local Similarity: 36.01% Mismatches: 120
Query Match: 35.46% Indels: 43
DB: 4 Gaps: 6

US-09-980-881A-3 (1-338) x US-09-011-769A-55 (1-1284)
QY 1 PheGlnSerGlyGlnValLeuAlaIleuProArgThrSerArgGlnValGlnValLeu 20
Db 85 TTTGAAGGCGAAGAGGTGTTCCCTGTTAACGTTGAAGATGAATAATACATTAACTAATC 144
QY 21 GlnAsnLeuThrThrThrTyrGluValLeuTyrGlnProValThrAlaAspLeu 40
Db 145 CGGAGATTGCGCCAGCAGCAGCCAGATTGACTCTCGAAGCAGATCTCTCAGCAAAATC 204
QY 41 ValLysLysLysGlnValHisPhePheValAsnAlaSerAspValAspAsnValLysAla 60
Db 205 AAACCTCACAGTACAGTACTCGTGTAAAGCAGAGATACGTGCTGAGAAAT 264
QY 61 HisLeuAsnValSerGlyTyrLeuProCysSerValLeuLeuAlaAspValGluAspLeu 80
Db 265 GTTCTTAAGCAGAAATGACTACATACAAAGTACTGATTAAGCAACCTGGAATGTGTG 324
QY 81 GlnGlnGlnIleSerAsnAspThrValSerProArgAlaSerAlaSerTyrTyrGluGln 100
Db 325 GAGGCTCAGTTGATAGCCGGGT-----CGTCAACAGCAGACAGTATGAGAG 375
QY 101 TyrHisSerLeuAsnGluIleTyrSerTyrPheIleGluPheIleThrGluArgHisProAsp 120
Db 376 TACAAACAGTGGGAAACGATAGAGCTTGACTACCAACAAGTCCAGTGAATCCAGCC 435
QY 121 MetLeuThrLysIleHisIleGlySerSerPheGluLysTyrProLeuTyrValLeuLys 140
Db 436 CTCATCTCTCGCAGGTGTATGGAACACATTTGAGGAGCGCGATTAACCTCCTGAAG 495
QY 141 ValSerGlyLysGlnGlnThrAlaLysAsnAlaIleTyrPheAspCysGlyIleHisAla 160
Db 496 GTT---GGCAAGCTCGACAAATAGCCCTGCAATTTTCATGAGCTGAGTTCCATGCC 552
QY 161 ArgGluTyrPheSerProAlaPheCysLeuTyrPheIle----- 173
Db 553 AGAGAGTGGATTCTTCCTGCAATTTGCGCAGTGTGTTGTAAGAGAGCTGTGCTACTAT 612
QY 173 ----- 173
Db 613 GCAGCTGAGATCCAGTGCAGACAGGCTTCTGACAGATTAGCTTTTATGCTGCTGG 672
QY 174 -----GlyHis-----AsnArgMetTyrArgLysAsnArg 183
Db 673 CTCATATTGATGGCTACATCTACACCTGACCAAGAGCGGATTTTGAGAAAGACTGCG 732
QY 184 SerPheTyrAlaAsnAsnHisCysIleGlyThrAspLeuAsnArgAsnPheAlaSerLys 203
Db 733 TCCACCACATCTGATCTAGCTGCAATTGGCAGACAGCCCAACAGAAATTTT---GATGCT 789
QY 204 HisTyrCysGluGluLysAlaSerSerSerCysSerGluThrTyrCysGlyLeuTyr 223
Db 790 GGTGATGTGAATGGAGACCTCTCGAAACCCCTGTGATGAACCTTACTGTGAGCTGCC 849
QY 224 ProGluSerGluProGluValLysAlaValAlaSerPheLeuArgArgAsnIleAsnGln 243
Db 850 GCAGAGTCTGAAAGAGCAGCAAGCCCTGCTGATTCATCCGCAACAAATCTCTTCC 909
QY 244 IleLysAlaTyrIleSerMetHisSerTyrSerGlnHisIleValPheProTyrSerTyr 263
Db 910 ATCAAGGCTATATCTACATTCACATCTGACTCTCCAAATGATGATGTACCTTACTCATAT 969
QY 264 ThrArgSerLysSerLysAspHisGluLysLeuSerLeuValAlaSerGluAlaValArg 283
Db 970 GCTTACAAACGTCGTGAGAACATGCTGATGTAATGCCCTGCTAAAGCTACTGTGAAA 1029
QY 284 AAlaIleGluLysThrSerLysAsnThrArgTyrThrHisGlyHisIleSerGluThrLeu 303

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Db 1030 GAACCT---GCCTACTGACGCGCACCAAGTACATATGCCCCGGAGCTACCAACATC 1086  
 Qy 304 TyrLeuAlaProGlyGlyGlyAspAspTrpIleTyrAspLeuGlyIleTyrSerPhe 323  
 Db 1087 TATCCTGCTGCTGGGGGCTCTGACGACTGGGCTTATGACCAAGAAATCATCTTCCTTC 1146  
 Qy 324 Thr 324  
 Db 1147 ACC 1149  
 RESULT 11  
 US-09-675-305-9  
 : Sequence 9, Application US/09675305  
 : Patent No. 6441153  
 : GENERAL INFORMATION:  
 : APPLICANT: Donoho, Gregory  
 : APPLICANT: Turner, C. Alexander Jr.  
 : APPLICANT: Neuhs, Michael  
 : APPLICANT: Friedlich, Glenn  
 : APPLICANT: Zambrowicz, Brian  
 : APPLICANT: Sands, Arthur T.  
 : TITLE OF INVENTION: No. 6441153el Human Carboxypeptidases and  
 : TITLE OF INVENTION: Polynucleotides Encoding the Same  
 : FILE REFERENCE: LEX-0047-USA  
 : CURRENT FILING DATE: 2000-09-29  
 : PRIOR APPLICATION NUMBER: US 60/156,685  
 : PRIOR FILING DATE: 1999-09-29  
 : NUMBER OF SEQ ID NOS: 13  
 : SOFTWARE: FastSeq for Windows Version 4.0  
 : SEQ ID NO 9  
 : LENGTH: 1311  
 : TYPE: DNA  
 : ORGANISM: homo sapiens  
 US-09-675-305-9  
 Alignment Scores:  
 Pred. No.: 7.3e-68 Length: 1311  
 Score: 619.50 Matches: 136  
 Percent Similarity: 51.15% Conservative: 64  
 Best Local Similarity: 34.78% Mismatches: 127  
 Query Match: 34.45% Indels: 64  
 Gaps: 8  
 US-09-980-881a-3 (1-338) x US-09-675-305-9 (1-1311)  
 Qy 1 PheGlnSerGlyGlnValLeuAlaLeuProArgThrSerArgGlnValGlnValLeu 20  
 Db 109 TATGCTGTGATTAAGATTTATCCCAAAACAGAGAGAGAGATATGCGACTG 168  
 Qy 21 GlnAsnLeuThrThrThrTyrGluIleValLeuTrpGlnProValThrAlaSplLeuIle 40  
 Db 169 AAGAAAATATCTATCAACTTAAGGTGACCTGGCCAGCCGCCAGCAAGTWCCTCTATGTA 228  
 Qy 41 ValLys-----LysLysGlnValHisPhePheValAsnAlaSerAspValAspAsnVal 58  
 Db 229 TCAGAGGAGAACGATTCATGATGTCATATCCCCCAAAATGCTCCGAGCC-----CTG 282  
 Qy 59 LysAlaHisLeuAsnValSerGlyIleProCysSerValLeuLeuAlaAspValGluAsp 78  
 Db 283 TTAGCCTTCTTACAGAAAGCCAACTCCAGTCAAGGCTCATAGAAATGCTTCGAA 342  
 Qy 79 LeuIleGlnGlnIleSerAsnAspThrValSerProArgAlaSerAlaSer----- 96  
 Db 343 ACACGTGGAGAAAGGAGACGCTTGACACACAGAAACCGAAGATCCTCTCTGGATAT 402  
 Qy 97 TyrTyrGlnGlnTyrHisSerLeuAsnGluIleTyrSerTrpIleGluPheIleThrGlu 116  
 Db 403 AATTAATGAAGTTATACACCTTACAGAAATTAATAATGATGATCATCTGATATAA 462  
 Qy 117 ArgHisProAspMetLeuThrLysIleHisIleGlySerSerPheGluLysTyrProIleu 136  
 Db 463 ACTCACTGAGGCTCATTCATGTTCTCTATTGGAAGATCATATGAGGAGATCTCTT 522

Qy 137 TyrValLeuLysValSerGlyLysGlnGlnThrAlaLysAsnAlaIleTrpIleAspCys 156  
 Db 523 TTTATTTTAAACCTG---GGCAGAGATTCACAGACTCAAAAGAGCTGTTGATGATGCT 579  
 Qy 157 GlyIleHisAlaArgGluTrpIleSerProAlaPheCysLeuTrpPheIle----- 173  
 Db 580 GGTATTCATGCAAGAAATGATGTGCTGCTCTTTTGACGTGTTGTAAAGAAAGCT 639  
 Qy 173 ----- 173  
 Db 640 CTTTACATATTAAGATGAGTCCAGCCATAGAGAAAATGTGAATCATATTTCTAT 699  
 Qy 174 -----GlyHisAsnArgMetTrp 179  
 Db 700 ATCATGCTGTGTTTACCTGATGATCCATTTAGTTGAGCAATGATGATTTTGG 759  
 Qy 180 ArgLysAsnArgSerPheTyrAlaAsnAsnHisCysIleGlyThrAspLeuAsnArgAsn 199  
 Db 760 AAAAAAACAAGGTCAAGAACTCAAGTTCCGCTGCCGTGGAGTGATGCCAATAGAAAC 819  
 Qy 200 PheAlaSerLysHisTrpCysGlnGluGlyAlaSerSerSerCysSerGluTrpTyr 219  
 Db 820 TCGAAGGTGAAG---TGCCTGATGAGAGAGCTTCTATGCACCCCTGTATACACATAC 876  
 Qy 220 CysGlyLeuTyrProGluSerGluProGluValLysAlaValAlaSerPheLeuArgArg 239  
 Db 877 TGTGGCCCTTTCCAGAACTGACCGGAGAGTGAAGCTGTACTTCCTTCGAAAA 936  
 Qy 240 AsnIleAsnGlnIleLysAlaTyrIleSerMetHisSerTyrSerGlnHisIleValPhe 259  
 Db 937 CACAGAAACACATATGAGGCTTATCTCTCTTCATGATGCTCAGATGCTACTGTAT 996  
 Qy 260 ProTyrSerTyrThrArgSerLysSerLysAspHisGlnGluLeuSerLeuValAlaSer 279  
 Db 997 CCTATTCCTTACAAATATCAACATTCACATTTTAAATGCTGGAATCTGCAGCTTAT 1056  
 Qy 280 GluAlaValArgAlaIleGluLysThrSerLysAsnThrArgTyrThrHisGlnHisGly 299  
 Db 1057 AAAGCTGTAATGACCTTATGACAGTA---TACGGGCTACGATACAGATATGACACGCC 1113  
 Qy 300 SerGluThrLeuTyrLeuAlaProGlyGlyAspAspTrpIleTyrAspLeuGlyIle 319  
 Db 1114 TCCACAAAGCTGTATGTGATGCTCTGCTGATGATGATGATGATGATGATGATGAT 1173  
 Qy 320 LysTyrSerPhe----- 323  
 Db 1174 CCTATGACATTTGCTTCGACACTGACGTGACACTGATATTTGATTTTACTCCAGAG 1233  
 Qy 324 ---ThrSerAsnProProValGluLysLeu 332  
 Db 1234 ATGCTCATCAAAACCCCTGTACAGAACTA 1264  
 RESULT 12  
 US-09-171-945-124  
 : Sequence 124, Application US/09171945  
 : Patent No. 6277599  
 : GENERAL INFORMATION:  
 : APPLICANT: Emery, Stephen  
 : APPLICANT: Copley, Clive Graham  
 : APPLICANT: Edge, Michael Derek  
 : TITLE OF INVENTION: Monoclonal Antibody to CEA, Conjugates Comprising Said  
 : TITLE OF INVENTION: Antibody, and Their Therapeutic Use in an Adept System  
 : FILE REFERENCE: Monoclonal Antibody to CEA  
 : CURRENT APPLICATION NUMBER: US/09/171,945  
 : PRIOR FILING DATE: 1998-10-29  
 : PRIOR APPLICATION NUMBER: GB9703103.3  
 : PRIOR FILING DATE: 1997-02-14  
 : PRIOR APPLICATION NUMBER: GB9609405.7  
 : PRIOR FILING DATE: 1996-05-04  
 : PRIOR APPLICATION NUMBER: PCT/GB97/01165  
 : PRIOR FILING DATE: 1997-04-29  
 : NUMBER OF SEQ ID NOS: 131

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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 124
; LENGTH: 2154
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: humanized
US-09-171-945-124

Alignment Scores:
Pred. No.: 1.69e-67 Length: 2154
Score: 619.50 Matches: 127
Percent Similarity: 54.29% Conservative: 69
Best Local Similarity: 35.18% Mismatches: 122
Query Match: 34.45% Indels: 43
Dn: 4 Gaps: 6

US-09-980-881a-3 (1-338) x US-09-171-945-124 (1-2154)

QY 1 PheGlnSerGlyGlnValLeuAlaAlaLeuProArgThrSerArgGlnValGlnValLeu 20
Db 64 TTTGAGAGCGGAGAGAGTGTTCCTGTTAACTGGAAGATGAATAACATTAACATTAATC 123
QY 21 GlnAsnLeuThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThr 40
Db 124 CGCGAGTGGCCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 183
QY 41 ValLysLysLysGlnValHisPhePheValAsnAlaSerAspValAspAsnValLysAla 60
Db 184 AAACCTCACAGTACACTGCTCCCTGTTAAAGCAGAGATCTCTCACTGCGGAGAT 243
QY 61 HisLeuAsnValSerGlyLeuProCysSerValLeuLeuValAspValGlnAspLeuLeu 80
Db 244 GTTCTTAACAGATGATACATACATACATGATGATGATGATGATGATGATGATGATGAT 303
QY 81 GlnGlnGlnLysSerAsnAspThrValSerProArgAlaSerAlaSerAlaSerAlaSer 100
Db 304 GAGGCTCAGTGTGATGAGCGGGT-----CGTCAACAGCAGCAGCAGTATGAGAG 354
QY 101 TyrHisSerLeuAsnGlnLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 120
Db 355 TACACACAGTGGAGAACATAGAGCTTGACTCAACAGATGCCCATGAGATCCAGCC 414
QY 121 MetLeuThrLysLeuHisLeuGlySerSerPheGlnLysLysLysLysLysLysLys 140
Db 415 CTCATCTCTCGCAGTGTTCGGAACACATTTGAGGAGCGCCCTTTCCTCCGGAAG 474
QY 141 ValSerGlyLysGlnGlnThrAlaLysAsnAlaLeuPheLysAspCysGlyLeuHisAla 160
Db 475 GTT---GGCAAGCTGGACAAATAATAGCCTGCCATTTTCATGAGTGTGTTCCATGCC 531
QY 161 ArgGlnThrLysSerProAlaPheCysLeuThrPheLeu----- 173
Db 532 AGAGAGTGGATTTCTCTCATTTGCCAGTGTGTTGTAAGAGAGCTGTGCTACCTAT 591
QY 173 ----- 173
Db 592 GGACGTGAGATCCAACTGACAGAGCTTCTGACAGTACCTTATGCTCCTGCTG 651
QY 174 -----GlyHis-----AsnArgMetIrpArgLysAsnArg 183
Db 652 CTCATATATGATGCGTACATCTACACCTGACCAAGAGCCGATTTTGAGAAAGATCCG 711
QY 184 SerPheTyrAlaAsnAsnHisCysLysLeuThrAspLeuAsnArgAsnPheAlaSerLys 203
Db 712 TCCACCCATCTGAGTGTGCTGCTGATGGCAGACCCACAGAAATTT---GATGCT 768
QY 204 HisTrpCysGlnGlnGlnLysSerSerSerSerSerSerSerSerSerSerSerSerSer 223
Db 769 GGTGGTGTGAATTTGAGACCTCTCGAAACCCCTGTGATGAATTAATCTGCTGACCTGCC 828
QY 224 ProGlnSerGlnProGlnValLysAlaValAlaSerPheLeuArgLysAsnLeuGln 243

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Db 829 GCAGACTGTGAAGAGAGACCAAGCCCTGGCTGATTTATCCGCAACAACTCTCTCC 888
QY 244 IleLysAlaTyrLysSerMetHisSerTyrSerGlnHisLeuAlaPheProTyrSerTyr 263
Db 889 ATCAAGCATATCTGACAAATCCACTGCTACCTCCAAATGATGATCACTTACTATAT 948
QY 264 ThrArgSerLysSerLysPheGlnGlnLeuSerLeuValAlaSerGlnAlaValArg 283
Db 949 GCTTACAAACTGGGTGAGAAACAAATGCTGAGTTGATGCTGCTGCTGCTGCTGCTGCTG 1008
QY 284 AlaIleGlnLysThrSerLysAsnThrArgTyrThrHisGlyHisGlySerGlnThrLeu 303
Db 1009 GAACCT---GCTCACTGCACAGCAGCAGCAGTACATATATGCCCCGAGACTACAAATC 1065
QY 304 TyrLeuAlaProGlnGlyLysAspAspTyrPheTyrAspLeuGlyLysLysTyrSerPhe 323
Db 1066 TATCTTCTGCTGGAGCTTCTTAAGACTGGCTTATGACCAAGATGAGATATCTTCTC 1125
QY 324 Thr 324
Db 1126 ACC 1128

RESULT 13
US-08-782-760-5
; Sequence 5, Application US/08782760
; Patent No. 5948668
; GENERAL INFORMATION:
; APPLICANT: Hartman, Jacob
; APPLICANT: Fulga, Nelta
; APPLICANT: Mendelovitch, Simona
; APPLICANT: Gorecki, Marian
; TITLE OF INVENTION: PRODUCTION OF ENZYMATICALLY ACTIVE
; TITLE OF INVENTION: CARBOXYPEPTIDASE B
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/782,760
; FILING DATE: 13-JAN-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/378,233
; FILING DATE: 25-JAN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0336/43847
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 278-0400
; TELEFAX: (212) 391-0525
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 927 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..927
; US-08-782-760-5

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## Alignment Scores:

Pred. No.:	6,37e-67	Length:	927
Score:	610.00	Matches:	126
Percent Similarity:	60.50%	Conservative:	44
Best Local Similarity:	44.84%	Mismatches:	71
Query Match:	33.93%	Indels:	41
DB:	2	Gaps:	5

US-09-980-881a-3 (1-338) x US-08-782-760-5 (1-927)

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QY 93 AlaSerAlaSerTyTyGluGlnTyHisSerLeuAsnGluLeuTySerTrpIleGlu 112
DB 1 GCAAGTGGACACAGCTACACCAAGTACACCACTGGAAACGATTGAGCGGTGATTCAA 60
QY 113 PheIleThrcIuArgHisProAspMetLeuThylsIleHisIleGlySerPheGlu 132
DB 61 CAAGTTGCCACTGATATATCCAGACTTGTCTCAGAGCGCTCATTTGGAAACCATTTGAA 120
QY 133 LysTyProLeuTyValLeuLysValSerGlyLysGluGlnThrAlaLysAsnAlaIle 152
DB 121 GGACGTACATGATATGCTCTCAAGATT---GGTAAACTAGACCGAATAAGCCTGCCATC 177
QY 153 TrpIleAspCysGlyIleHisAlaArgGluTrpIleSerProAlaPheCysLeuTrpPhe 172
DB 178 TTCATCGATTGTGTGTTCCATGCAAGAGAGTGATTCTCTGCAATTCGTACGTGTTT 237
QY 173 Ile----- 173
DB 238 GTGAGAGAGCGCTGCTCCGTACTATATCAAGAGATCCACATGAACGCTTCTAGATGAA 297
QY 174 -----GlyHis----- 175
DB 298 CTGATTCTATGTCTGCTGCTGCTGCTCAACATTGATGCTATGTCTACACCTGGACTAAG 357
QY 176 AsnArgMetTrpArgLysAsnArgSerPheTyAlaAsnHisCysIleGlyThrAsp 195
DB 358 GACAGATGTGAGAAAACCCGCTCTACTATGAGTGAAGTCCCTGCTGGCTGTAGAC 417
QY 196 LeuAsnArgAsnPheAlaSerLysHisTrpCysGluGluValAlaSerSerSerCys 215
DB 418 CCCAAGAGGAATTTT---ATGCTGCTGTGTGAGAGTGGAGCTTCTGGAATCCCTGC 474
QY 216 SerGluThrTyrcysGlyLeuTyTrpGluSerGluProGluValLysAlaLysAsn 235
DB 475 TCTGAACCTTACTGTGACGACGCCAGAGTCTGAAAAGAGCAAGGCCCTGGAGAT 534
QY 236 PheLeuArgArgAsnIleAsnGlnIleLysAlaTyTrIleSerMetHisSerTySerGln 255
DB 535 TTCATCCGCAACACCTCCACCATCAAGGCTTACCTGACCATCCATCATCTACACAG 594
QY 256 HisIleValPheProTySerTyTrpArgSerLysSerLysAspHisGluGluLeuSer 275
DB 595 ATGATGCTCTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCT 654
QY 276 LeuValAlaSerGluAlaValArgAlaIleGluLysThrSerLysAsnThrArgTyThr 295
DB 655 GCCCTGTGTAAGGTGCGGCAAGAGGCTT---GCCACCTGATGAGCGCAACAGTACACA 711
QY 296 HisGlyHisGlySerGluThrLeuAlaProGlyCysGlyLysAspTrpIleTy 315
DB 712 TTATGCCAGAGAGCTACACCATCTCTCTGCTGCTGAGGATCTGACGACTGCTTAT 771
QY 316 AspLeuGlyIleLysTySerPheThrSerAsnProProValGluLysLeuLeuProLeu 335
DB 772 GATCAGAGATCAATATCTTACCTTGAAGT---CCGGGATACAGGCTTCTTGACTT 830
QY 336 Ser 336
DB 831 TCT 833

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RESULT 14  
PCT-US96--00995-5

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; Sequence 5, Application PC/TUS9600995
; GENERAL INFORMATION:
; APPLICANT: Bio-Technology General Corp.
; TITLE OF INVENTION: PRODUCTION OF ENZYMATICALLY ACTIVE
; TITLE OF INVENTION: CARBOXYPEPTIDASE B
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESS: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/00995
; FILING DATE: 25-JAN-1996
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0336/43847-A-PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 278-0400
; TELEFAX: (212) 391-0525
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 927 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..927
; PCT-US96-00995-5

```

## Alignment Scores:

Pred. No.:	6,37e-67	Length:	927
Score:	610.00	Matches:	126
Percent Similarity:	60.50%	Conservative:	44
Best Local Similarity:	44.84%	Mismatches:	71
Query Match:	33.93%	Indels:	41
DB:	5	Gaps:	5

US-09-980-881a-3 (1-338) x PCT-US96--00995-5 (1-927)

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QY 93 AlaSerAlaSerTyTyGluGlnTyHisSerLeuAsnGluLeuTySerTrpIleGlu 112
DB 1 GCAAGTGGACACAGCTACACCAAGTACACCACTGGAAACGATTGAGCGGTGATTCAA 60
QY 113 PheIleThrcIuArgHisProAspMetLeuThylsIleHisIleGlySerPheGlu 132
DB 61 CAAGTTGCCACTGATATATCCAGACTTGTCTCAGAGCGCTCATTTGGAAACCATTTGAA 120
QY 133 LysTyProLeuTyValLeuLysValSerGlyLysGluGlnThrAlaLysAsnAlaIle 152
DB 121 GGACGTACATGATATGCTCTCAAGATT---GGTAAACTAGACCGAATAAGCCTGCCATC 177
QY 153 TrpIleAspCysGlyIleHisAlaArgGluTrpIleSerProAlaPheCysLeuTrpPhe 172
DB 178 TTCATCGATTGTGTGTTCCATGCAAGAGAGTGATTCTCTGCAATTCGTACGTGTTT 237
QY 173 Ile----- 173
DB 238 GTGAGAGAGCGCTGCTCCGTACTATATCAAGAGATCCACATGAACGCTTCTAGATGAA 297

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QY 174 -----GLYHis----- 175  
Db 298 CTGATTTATGATGCTGCTGTGTCACATTTGATGGCTATGCTACACCTGGACTAAG 357  
QY 176 AsnArgMetTrpArgLysAsnArgSerPheTyrAlaAsnAsnHisCysIleGlyThrAsp 195  
Db 358 GACAGATGTGGAGAAAMACCCTCTACTATGAGCTGCAAGTTCCTGCTGGGTGTAGAC 417  
QY 196 LeuAsnArgAsnPheAlaSerLysHisTrpCysGluGluGlyAlaSerSerSerCys 215  
Db 418 CCACACAGCAATTTT---AATGCTGCTGTGTGAGAGTGGAGCTTCTGGACTCCCTGC 474  
QY 216 SerGluThrTyrCysGlyLeuTyrProGluSerGluProGluValLysAlaValAser 235  
Db 475 TCTGAACCTACTGTGGACAGCCCAAGAGTGTGAAGAACAGCAAGGCCCTGGCAGAT 534  
QY 236 PheLeuArgArgAsnIleAsnGlnIleLysAlaTyrIleSerMetHisSerTyrSerGln 255  
Db 535 TTCATCCGCAACACCTCCACCATCAGCCCTACCTGACCATCCATCATCTACTCAG 594  
QY 256 HisIleValPheProTyrSerTyrThrArgSerLysSerLysAspHisGluGluSer 275  
Db 595 ATGATCTCTACCTTACTTACTTATGACTACAACTGCTGAGACTATGAGCAATTTGAAT 654  
QY 276 LeuValAlaSerGluAlaValArgAlaIleGluLysThrSerLysAsnThrArgTyrThr 295  
Db 655 GCCCTGTGTAAGGTGCGCAAGAGAGCTT---GCCACTCTGCAATGGACCAAGTACACA 711  
QY 296 HisGlyHisGlySerGluThrLeuTyrLeuAlaProGlyGlyLysAspTrpIleTyr 315  
Db 712 TATGGCCAGGAGCTCAACAACTATCTCTGCTGCTGGGAGATCTACACATGCTTAT 771  
QY 316 AspLeuGlyIleLysTyrSerPheThrSerAsnProProValGluLysLeuLeuProLeu 335  
Db 772 GATCAGAGGATCAAAATATCTTACTTGAAGT---CCGGATACAGGCTTCTTGCTT 830  
QY 336 Ser 336  
Db 831 TCT 833  
RESULT 15  
US-08-696-139-3  
Sequence 3, Application US/08696139  
Patent No. 5672496  
GENERAL INFORMATION:  
APPLICANT: Fayerman, Jeffrey T.  
APPLICANT: Greenen, David P.  
APPLICANT: Hersberger, Charles L.  
APPLICANT: Larson, Jeffrey L.  
APPLICANT: Steiner, Jane L.  
APPLICANT: Zhang, Haichao  
TITLE OF INVENTION: DNA SEQUENCES ENCODING PORCINE  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Eli Lilly and Company  
STREET: Lilly Corporate Center  
CITY: Indianapolis  
STATE: Indiana  
COUNTRY: United States of America  
ZIP: 46285  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/696,139  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/153,258  
FILING DATE: 16-NOV-1993

ATTORNEY/AGENT INFORMATION:  
NAME: Gaylo, Paul J.  
REGISTRATION NUMBER: 36,808  
REFERENCE/DOCKET NUMBER: X-8681  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (317) 276-0756  
TELEFAX: (317) 276-3861  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 921 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..921  
US-08-696-139-3

## Alignment Scores:

pred. No.:	2,096-63	Length:	921
Score:	582.00	Matches:	117
Percent Similarity:	59.47%	Conservative:	40
Best Local Similarity:	44.32%	Mismatches:	67
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DB:	1	Gaps:	5

US-09-980-881a-3 (1-338) x US-08-696-139-3 (1-921)

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QY 118 HisProAspMetLeuThrLysIleHisIleGlySerSerPheGluLysTyrProLeuTyr 137  
Db 76 AATCCAGACCTCATCTCTGACAGACCATCGCACTACTTTTGAAGAACAAATATATAC 135  
QY 138 ValLeuIleValSerGlyLysGluGlnThrAlaLysAsnAlaIleTrpIleAspCysGly 157  
Db 136 CTCCTCAAGGTT---GGCAACCTGGACCAATAAGCCTGCATTTTATGAGATGTGT 192  
QY 158 IleHisAlaArgLutrpIleSerProAlaPheCysLeuTrpPheIle----- 173  
Db 193 TTCATGCGCAGAGAAATGATTTCCCATGATTTTCCAGTGGTTTGTGAGAGAGCTGTT 252  
QY 173 ----- 173  
Db 253 CTCACCTATGATATAGAGATCACATGACAGAAATTCCTCAACACCTAGACTTTATGTC 312  
QY 174 -----GLYHis----- 312  
Db 313 TTGCTGTGCTCATATATGATGGCTACATCTACACCTGGACCAAGACCAATGTGGAGA 372  
QY 181 LysAsnArgSerPheTyrAlaAsnAsnHisCysIleGlyThrAspLeuAsnArgAsnPhe 200  
Db 373 AAGACCCGCTTACCAAACTGGAAGTACCTGCAATTTGGACAGACCCCAAGAAATTTT 432  
QY 201 AlaSerLysHisTrpCysGluGluGlyAlaSerSerSerSerCysSerGluThrTyrCys 220  
Db 433 ---GATGCTGGGTGTGCAACACTGGAGCTCTTACAGACCCCTGGATGAGACCTTACT 489  
QY 221 GlyLeuTyrProGluSerGluProGluValLysAlaValAserPheLeuArgArgAsn 240  
Db 490 GGATGTGCTGCAGAGTGTGAAGAAAGAGACCAAGGCCCTGGCTGATTTTATACGACAC 549  
QY 241 IleAsnGlnIleLysAlaTyrIleSerMetHisSerTyrSerGlnHisIleValPhePro 260  
Db 550 CTCCTCCATCAAGCAATACCTGACGATCCATCATCTACACAGATGATACTTACCT 609  
QY 261 TyrSerTyrThrArgSerLysSerLysAspHisGluGluSerLeuValAlaSerGlu 280  
Db 610 TATTCCTATGATTTACAAACTCCCGAGAACAAATGCTGATTAACCTGGCTAAGGCT 669



**This Page Blank (uspto)**

GenCore version 5.1.4-p5.4578  
Copyright (c) 1993 - 2003 Compugen Ltd.

## OM protein - nucleic search, using frame\_plus.p2n model

Run on: May 19, 2003, 03:14:57 ; Search time 23.9746 Seconds  
(without alignments)  
3146.770 Million cell updates/sec

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Perfect score: 1338  
Sequence: 1 ASASYEQXHSNLEIYSWIE.....IKYFTSNPVEKLLPLSLK 246

Scoring table:  
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Xgapop 10.0, Ygapext 0.5  
Ygapop 10.0, Ygapext 0.5  
Fgapop 6.0, Fgapext 7.0  
Delop 6.0, Delext 7.0

Searched: 441362 segs, 153338381 residues  
Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Command line parameters:  
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-Q=/cgn2\_1/USFTO.spool/US09980881/rnmat\_12052003\_085041\_16630/app\_query.fasta\_1.1429  
-DB=Issued\_Patents\_NA -OFMT=fasta -SUFFIX=p2n.rn1 -MINMATCH=0.1 -LOOPEL=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi  
-LIST=45 -DOCALLIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15  
-MODE=LOCAL -OUTFMT=ptlo -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000  
-USER=US09980881 @CGN 1.1 62 @rnmat\_12052003\_085041\_16630 -NCPU=6 -ICPU=3  
-NO\_XLPCXY -NO\_MMAP -LARGEQUERY -NEG\_SCORES=0 -WAIT -LONGLOG -DEV\_TIMEOUT=120  
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-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

## Database :

- Issued\_Patents\_NA:\*
- 1: /cgn2\_6/ptodata/1/ina/5A.COMB.seq:\*
  - 2: /cgn2\_6/ptodata/1/ina/5B.COMB.seq:\*
  - 3: /cgn2\_6/ptodata/1/ina/6A.COMB.seq:\*
  - 4: /cgn2\_6/ptodata/1/ina/6B.COMB.seq:\*
  - 5: /cgn2\_6/ptodata/1/ina/PTUS.COMB.seq:\*
  - 6: /cgn2\_6/ptodata/1/ina/backfile1.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1289.5	96.4	1272	4 US-09-813-133A-1	Sequence 1, Appli
2	1272	95.1	1272	2 US-08-869-057-1	Sequence 1, Appli
3	1272	95.1	1749	1 US-07-649-591B-2	Sequence 2, Appli
4	1272	95.1	1749	1 US-08-277-540-2	Sequence 2, Appli
5	1272	95.1	1749	1 US-08-430-787A-2	Sequence 2, Appli
6	610	45.6	927	2 US-08-782-760-5	Sequence 5, Appli
7	610	45.6	927	5 PCT-US96-00995-5	Sequence 5, Appli
8	582	43.5	921	1 US-08-696-139-3	Sequence 3, Appli
9	582	43.5	1215	1 US-08-696-139-1	Sequence 1, Appli
10	567	42.4	999	2 US-08-860-882A-67	Sequence 67, Appli
11	567	42.4	999	2 US-09-011-769A-50	Sequence 50, Appli
12	567	42.4	1053	2 US-08-860-882A-64	Sequence 64, Appli

13	567	42.4	1053	4 US-09-011-769A-46	Sequence 46, Appli
14	567	42.4	1263	2 US-08-860-882A-56	Sequence 56, Appli
15	567	42.4	1263	4 US-09-011-769A-38	Sequence 38, Appli
16	567	42.4	1284	2 US-08-860-882A-71	Sequence 71, Appli
17	567	42.4	1284	4 US-09-011-769A-55	Sequence 55, Appli
18	560	41.9	1059	2 US-08-860-882A-74	Sequence 74, Appli
19	560	41.9	1059	4 US-09-011-769A-59	Sequence 59, Appli
20	559	41.8	1059	2 US-08-860-882A-77	Sequence 77, Appli
21	559	41.8	1059	4 US-09-011-769A-63	Sequence 63, Appli
22	556.5	41.6	1311	4 US-09-675-305-9	Sequence 9, Appli
23	549	41.0	1870	4 US-09-171-945-112	Sequence 112, App
24	549	41.0	2154	4 US-09-171-945-124	Sequence 124, App
25	525.5	39.3	2128	4 US-09-675-305-13	Sequence 13, Appli
26	492	36.8	1200	4 US-09-710-099-7	Sequence 7, Appli
27	471.5	35.2	1050	4 US-09-675-305-11	Sequence 11, Appli
28	465.5	34.8	1257	3 US-08-640-906-1	Sequence 1, Appli
29	465.5	34.8	1257	4 US-09-395-936-1	Sequence 1, Appli
30	465.5	34.8	1311	4 US-09-710-099-5	Sequence 5, Appli
31	459	34.3	1251	3 US-08-640-906-3	Sequence 3, Appli
32	459	34.3	1251	4 US-09-395-936-3	Sequence 3, Appli
33	405.5	30.3	945	4 US-09-710-099-11	Sequence 3, Appli
34	405.5	30.3	945	4 US-09-710-099-11	Sequence 11, Appli
35	403.5	30.2	2247	4 US-09-710-099-15	Sequence 15, Appli
36	379	28.3	1056	4 US-09-710-099-9	Sequence 9, Appli
37	379	28.3	1056	4 US-09-710-099-9	Sequence 9, Appli
38	356	26.6	55827	4 US-09-813-133A-3	Sequence 3, Appli
39	325.5	16.9	741	4 US-09-675-305-5	Sequence 5, Appli
40	198.5	14.8	629	4 US-09-280-116-128	Sequence 28, App
41	169.5	12.7	515	4 US-08-998-416-125	Sequence 125, App
42	163	12.2	591	4 US-09-331-709-2	Sequence 2, Appli
43	104.5	7.8	673	4 US-09-280-116-93	Sequence 93, Appli
44	96.5	7.2	2382	4 US-09-641-741-1	Sequence 1, Appli
45	96.5	7.2	2719	3 US-08-706-216-1	Sequence 1, Appli

## ALIGNMENTS

RESULT 1  
US-09-813-133A-1  
Sequence 1, Application US/09813133A  
Patent No. 6453294  
GENERAL INFORMATION:  
: APPLICANT: GAN, Weiniu et al  
: TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,  
: TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN PROTEASE PROTEINS, AND  
: FILE REFERENCE: CLO01173  
: CURRENT APPLICATION NUMBER: US/09/813, 133A  
: CURRENT FILING DATE: 2001-06-06  
: NUMBER OF SEQ ID NOS: 4  
: SOFTWARE: FastSeq for Windows Version 4.0  
: SEQ ID NO 1  
: LENGTH: 1625  
: TYPE: DNA  
: ORGANISM: Human  
US-09-813-133A-1

## Alignment Scores:

Pred. No.: 4.77e-153 Length: 1625  
Score: 1289.50 Matches: 244  
Percent Similarity: 92.42% Conservative: 0  
Best Local Similarity: 92.42% Mismatches: 2  
Query Match: 96.38% Indels: 18  
DB: 4 Gaps: 1

US-09-980-881A-4 (1-246) x US-09-813-133A-1 (1-1625)

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QY 21 pHeIeThrGluArghIsProaspMeIeThrLysIleHsIleGlySerSerPheGlu 40  
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Db 479 AAGTACCCACTCTATGTTTAAAGSTTTCTGAAAAGACAGACCAAAAATGCCATA 538
Qy 61 TTPILASPCYSGLYLLEHISALAARGGLUTRPILESERPROALAPHECYSLLEUTRPH 80
Db 539 TGGATTGACTGTGGAATCCATGACAGAAATGATCTCTCTGCTTCTGCTGTGGGTC 598
Qy 81 ILEGLYHISASARGMETTRPAIRGLYSANARGSERPHERYRALASNAHISCYSLLE 100
Db 599 ATAGGCCATATTCGAATGGAGAAAGACCGTTCTTCTATGGCAACAAATTCGATC 658
Qy 101 GLYTHRASPLeuAsnArgAsnPheAlaSerLysHisTrpCysGluGluGlyAlaSerSer 120
Db 659 GGAACAGACCTGATAGGAACCTTGCTTCCAAACAGCTGTGGAGAAAGGTGCATTCAGT 718
Qy 121 SERISYSSERGLUTHTYRYSGLYLEUTYRPROGLUSERGLUPROGLUVALLYSALA 140
Db 719 TCCCATGCTCGGAACCTACTGCTGACTTATCTGAGTCAGAACCAAGTGAAGCA 778
Qy 141 VALLASERPHELEUARYGASNILEASNGLLELYSALARYLLESERMEHISER 160
Db 779 GTGCTTGCTTTCTTGAGAGAAATATACACAGATTAAACCATACATCACATTCATTC 838
Qy 161 TYRSERGLNHISLEVALPHEPROTYRSERTYRTHRARGSERLYSASPHEISGLU 180
Db 839 TACTCCAGCATATAGTGTTCATTCCTATACACAGATTAACCAAGACATGAG 898
Qy 181 GLUSEUSERLEUVALASERGLUVALALARGALILEGLUYSTHRSERYLSASNTHR 200
Db 899 GAACGTGCTCTAGAGCACTGAGCAAGTCGCTATTGAGAAAATTAATAAAATACC 958
Qy 201 ARGTYRTHRHSGLYHISGLYSERGLUTHRLEUTYLEULAPROGLYGLYASPAASP 220
Db 959 AGGATACACATGCGCCATGCTGCTGAGAAACCTTATACCTAGCTCTGGAGGTGGAGCAT 1018
Qy 221 TTPLETYRASPLeuGlyLLELYSTYRSERPHE----- 231
Db 1019 TGGATCTATGATTGGGCAATATTCGTTACATGACCTGAGATACGGGCACA 1078
Qy 232 -----THRSERANPROPROVALGILULYSLEULEUPROLE 243
Db 1079 TACGGATTCTTGCTGCCGAGCGCTTACATCAACCAACCGTAGAGAAAGCTTTGCCGCT 1138
Qy 243 USERLEULYS 246
Db 1139 GTCTCTAAAA 1148

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RESULT 2  
US-08-869-057-1  
Sequence 1, Application US/08869057  
Patent No. 5985562  
GENERAL INFORMATION:  
APPLICANT: Morser, Michael J  
APPLICANT: Nagashima, Mariko  
TITLE OF INVENTION: Method of Detecting Thrombotic Disease  
TITLE OF INVENTION: Risk  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Berlex Biosciences Legal Department  
STREET: 15049 San Pablo Avenue  
CITY: Richmond  
STATE: California  
COUNTRY: USA  
ZIP: 94804-0099  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:

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APPLICATION NUMBER: US/08/869,057
FILING DATE: 03-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Washlien, Wendy L
REGISTRATION NUMBER: 36,301
REFERENCE/DOCKET NUMBER: 51509AUSM1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-262-5411
TELEFAX: 510-262-7095
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1272 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: CDNA
PUBLICATION INFORMATION:
AUTHORS: Eaton, Dan L.
AUTHORS: Malloy, Beth E.
AUTHORS: Tsai, Siao P
AUTHORS: Henzel, William
AUTHORS: Drayna, Dennis
TITLE: Isolation, Molecular Cloning, and Partial
TITLE: Characterization of a No. 5985562el Carboxypeptidase B
JOURNAL: J Biol. Chem.
VOLUME: 266
ISSUE: 32
PAGES: 21833-21838
DATE: NO. 5985562 15-1991
US-08-869-057-1

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Alignment Scores:

	pred. No.:	5,24e-151	Length:	1272
Score:	1272.00	Matches:	246	
Percent Similarity:	81.73%	Conservative:	0	
Best Local Similarity:	81.73%	Mismatches:	55	
Query Match:	95.07%	Indels:	55	
DB:	2	Gaps:	2	

US-09-980-881a-4 (1-246) x US-08-869-057-1 (1-1272)

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Qy 1 AlAserAlaSerTYRValLEuLYSValSERGLYSGIUGINTHRLALASNAALALE 20
Db 343 GCCTCCGCACTGATACATGACAGATATCATCTCAATGAATGAAATCTATTCGTTGATAAA 402
Qy 21 PHELETTHGLUARGHISPRASPMETLEUTHRLYSILEHISILEGLYSERPERHEGLU 40
Db 403 TTTATAAAGTGAAGAGGACATCTGATATGCTTACAAAAATCCACATTCGATTCATTTGAG 462
Qy 41 LYSTYRPROLEUARYVALLEULYSVALSERGLYSGIUGINTHRLALASNAALALE 60
Db 463 AAGTACCCACTCTATGTTTAAAGSTTTCTGAAAAGACAGACCAAAAATGCCATA 522
Qy 61 TTPILASPCYSGLYLLEHISALAARGGLUTRPILESERPROALAPHECYSLLEUTRPH 80
Db 523 TGGATTGACTGTGGAATCCATGACAGAAATGATCTCTCTGCTTCTGCTGTGGGTC 582
Qy 81 ILEGLYHIS----- 83
Db 583 ATAGGCCATATTCGAATTCATGATGGAATAAGGCAATATACCAATCTCTGAGGCTT 642
Qy 83 ----- 83
Db 643 GTGATTTCTATGTTATACCGGTGCTTAATGTGACGGTTTGTACTCATGGAAGAAAG 702
Qy 84 ASNARGMETTRPAIRGLYSANARGSERPHERYRALASNAHISCYSLILEGLYTHRASP 103
Db 703 AATCGAATGTGAGAAAGACCGTTCTTCTATGGCAACAAATTCGATTCGGAACGAGAC 762
Qy 104 LEUASNARGSNPHEALASERLYSHISTRPCYSGIUGIUGLYALASERSERSERCYS 123

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Db 763 CTGAATAGCACTTCTCCAAACACGTGGTGTGAGGAAGGTGACATCCAGTCTCCATCC 822  
QY 124 SerGluThrTyrcysglyleuTyrrProgluSerGluProgluValIysAlaValaser 143  
Db 823 TCGGAACCTACTGTGAGACTTTATCTGTGAGTACGAAACCGAAGTGAAGCAGTGGCTAGT 882  
QY 144 PheLeuArgArgAsnIleasnGlnIleLysAlaTyrlIleSerMetHisSerTyrrSerGln 163  
Db 883 TTCTGAGAGAAATATCAACACAGATTAAAGCATACATGATGATGATGATGATGATGATG 942  
QY 164 HisIleValPheProTyrrSerTyrrThrArgSerLysSerLysAspHisGluGluLeuSer 183  
Db 943 CATATAGTGTTCATATTCCTATACAGCAAGTAAAGCAAGACCATAGAGAACTGTCT 1002  
QY 184 LeuValAlaSerGluAlaValArgAlaIleGluLysThrSerLysAsnThrArgTyrrThr 203  
Db 1003 CTAGTAGCCAGGAGAGCACTGTGCTATGAGAAAACAGTAAATACCGAGTATACA 1062  
QY 204 HisGlyHisGlySerGluThrLeuTyrrLeuAlaProGlyGlyLysAspTrpIleTyrr 223  
Db 1063 CATGCCATAGCTCAGAAACCTTATACCTAGCTCTGAGAGTGGGAGCATGGATCTAT 1122  
QY 224 AspleuGlyIleLysTyrrSerPhe----- 231  
Db 1123 GATTGGGCATCAAAATATTCGTTACAAATTGAACCTTGAGATACGGGCACATACGATTC 1182  
QY 232 -----ThrSerAsnProProValGluLysLeuProLeuSerLeuTyrr 246  
Db 1183 TTGCTGCCGAGCGCTTACTACATCAACCCACCTGTAGAGAAAGCTTTGCCGCTGTCTATA 1242  
QY 246 s 246  
Db 1243 A 1243

RESULT 3  
US-07-649-591B-2.  
Sequence 2, Application US/07649591B  
Patent No. 5206161  
GENERAL INFORMATION:  
APPLICANT: Dennis Drayna and Daniel Eaton  
TITLE OF INVENTION: No. 5206161el Plasma Carboxypeptidase  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Genentech, Inc.  
STREET: 460 Point San Bruno Blvd  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patin (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/649, 591B  
FILING DATE: 19910201  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Hasak, Janet E.  
REGISTRATION NUMBER: 28, 616  
REFERENCE/DOCKET NUMBER: 689  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415/266-1896  
TELEFAX: 415/952-9881  
TELEX: 910/371-7168  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1749 bases  
TYPE: NUCLEIC ACID

STRANDEDNESS: single  
TOPOLOGY: linear  
FEATURE:  
NAME/KEY: hybridization probe  
LOCATION: 133 to 178  
IDENTIFICATION METHOD:  
OTHER INFORMATION:  
FEATURE:  
NAME/KEY: potential clip site  
LOCATION: 380 to 382  
IDENTIFICATION METHOD:  
OTHER INFORMATION:  
FEATURE:  
NAME/KEY: signal sequence  
LOCATION: 41 to 106  
IDENTIFICATION METHOD:  
OTHER INFORMATION:  
US-07-649-591B-2

Alignment Scores:  
Pred. No.: 8, 77e-151  
Score: 1272.00  
Percent Similarity: 81.73%  
Best Local Similarity: 81.73%  
Query Match: 95.07%  
DB: 1  
Matches: 1749  
Conservative: 246  
Mismatches: 0  
Indels: 55  
Gaps: 2

US-09-980-881a-4 (1-246) x US-07-649-591B-2 (1-1749)

QY 1 AlaserAlaserTyrrTyrrGluGluTyrrHisSerLeuAsnGluIleTyrrSerTrpIleGlu 20  
Db 383 GCCTCCGATCGTACTATATACAGTATCACTACTAAATGAATCTATCTTGATAGAA 442  
QY 21 PheIleThrGluArgHisProAspMetLeuThrLysIleHisIleGlySerSerPheGlu 40  
Db 443 TTTATACAGAGAGCATCTCTGATATGCTTACAAATATCCATTTGGATCCTATTGAG 502  
QY 41 LysTyrrProLeuTyrrValLeuLysValSerGlyLysGluGluThrAlaLysAsnAlaIle 60  
Db 503 AAGTACCACCTATGTTTAAAGGTTTCTGGAAAGAACAAACAGCAAAATATGTCATTA 562  
QY 61 TrpIleAspCysGlyIleHisAlaArgGluTrpIleSerProAlaPheCysLeuTrpPhe 80  
Db 563 TGGATTGACGTGGATCATGCACAGAGATGATCTCTCTGCTTCTGCTTGTGTTTC 622  
QY 81 IleGlyHis----- 83  
Db 623 ATAGCCATATTAACCTAATTCTATGGGATTAATAGGCCAATATACCAATCTCCTGAGGCTT 682  
QY 83 ----- 83  
Db 683 GTGATTTCTATGTATGCGCGTGTAAATGTGACGGTTATGATCACTACATGGAAGAAAG 742  
QY 84 AsnArgMetTrpArgLysAsnArgSerPheTyrrAlaAsnHisCysIleGlyThrAsp 103  
Db 743 AATCGAATGTGGAGAAAGAACCGTTCTTCTATGCAACATCATGATCGGAAACAGAC 802  
QY 104 LeuAsnArgAsnPheAlaSerLysHisTrpCysGluGluGluValaserSerSerCys 123  
Db 803 CTGAATAGCACTTCTTCCAAACACTGTGTGAGAGAGGTCCATCCAGTCTCTATGC 862  
QY 124 SerGluThrTyrcysglyleuTyrrProgluSerGluProgluValLysAlaValaser 143  
Db 863 TCGGAACCTACTGTGAGACTTTATCTGTGAGTACGAAACCGAAGTGAAGCAGTGGCTAG 922  
QY 144 PheLeuArgArgAsnIleasnGlnIleLysAlaTyrlIleSerMetHisSerTyrrSerGln 163  
Db 923 TTCTGAGAGAAATATCAACACAGATTAAAGCATACATGATGATGATGATGATGATGATG 982  
QY 164 HisIleValPheProTyrrSerTyrrThrArgSerLysSerLysAspHisGluGluLeuSer 183  
Db 983 CATATAGTGTTCATATTCCTATACAGCAAGTAAAGCAAGACCATGAGCACTGTCT 1042

QY 184 LeuValAlaSerGluAlaValArgAlaIleGluLysThrSerLysAsnThrArgTyrThr 203  
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 Db 1043 CTAGTACCGACGTGAAGAGTTCGTCATTTGAGAAACTGTAATAATACAGGTATACA 1102  
 QY 204 HisGlyHisGlySerGluThrLeuTyrLeuAlaProGlyGlyAspAspTyrPheTyr 223  
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 Db 1103 CATGGCCATGGCTCAGAAACCTTATACCTAGCTCTGAGGTGGGACGATTCATCTAT 1162  
 QY 224 AspleuglylleLysTyrSerPhe----- 231  
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 Db 1163 GATTGGGCTCAATATTTGCTTTACATTCGAACCTTCGAGATACGGGCACATTCGATTC 1222  
 QY 232 -----ThSerAsnProProValGluLysLeuLeuProLeuSerLeuLys 246  
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 Db 1223 TTGCTGCCGAGCGTTACATCAACACCACCTGTAGAGAACCTTTGGCGCTGTCTCTAAA 1282  
 QY 246 s 246  
 Db 1283 A 1283  
 RESULT 4  
 US-08-277-540-2  
 : Sequence 2, Application US/08277540  
 : Patent No. 5474901  
 : GENERAL INFORMATION:  
 : APPLICANT: Drayna, Dennis T., Eaton, Dan L.  
 : TITLE OF INVENTION: No. 5474901el Plasma Carboxypeptidase  
 : NUMBER OF SEQUENCES: 8  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESSEE: Genentech, Inc.  
 : STREET: 460 Point San Bruno Blvd  
 : CITY: South San Francisco  
 : STATE: California  
 : COUNTRY: USA  
 : ZIP: 94080  
 : COMPUTER READABLE FORM:  
 : MEDIUM TYPE: 5.25 inch, 360 kb floppy disk  
 : COMPUTER: IBM PC compatible  
 : OPERATING SYSTEM: PC-DOS/MS-DOS  
 : SOFTWARE: patin (Genentech)  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/08/277,540  
 : FILING DATE: 19-JUL-1994  
 : CLASSIFICATION: 435  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: 08/167727  
 : FILING DATE: 15-DEC-1993  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: 07/959944  
 : FILING DATE: 14-OCT-1992  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: 07/649591  
 : FILING DATE: 01-FEB-91  
 : ATTORNEY/AGENT INFORMATION:  
 : NAME: Hasak, Janet E.  
 : REGISTRATION NUMBER: 28,616  
 : REFERENCE/DOCKET NUMBER: 689D1C1D1  
 : TELECOMMUNICATION INFORMATION:  
 : TELEPHONE: 415/225-1896  
 : TELEFAX: 415/952-9881  
 : TELEX: 910/371-7168  
 : INFORMATION FOR SEQ ID NO: 2:  
 : SEQUENCE CHARACTERISTICS:  
 : LENGTH: 1749 bases  
 : TYPE: nucleic acid  
 : STRANDEDNESS: single  
 : TOPOLOGY: linear  
 : US-08-277-540-2  
 Alignment Scores: 8.77e-151 Length: 1749  
 Pred. No.: 1272.00 Matches: 246  
 Percent Similarity: 81.73% Conservative: 0

Best Local Similarity: 81.73% Mismatches: 0  
 Query Match: 95.07% Indels: 55  
 DB: 1 Gaps: 2  
 US-09-980-881a-4 (1-246) x us-08-277-540-2 (1-1749)  
 QY 1 AlaSerAlaSerTyrTyrGluGlnTyrHisSerLeuAsnGluIleTyrSerTrpIleGlu 20  
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 Db 383 GCCTCCGACGTGACTATGAGTACAGTATCACTCACTAAATGAATCTATTTGGATGAGA 442  
 QY 21 PheIleThrGluArgHisProAspMetLeuThrLysIleHisIleGlySerSerPheGlu 40  
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 Db 443 TTATATACGAGAGGCATCCTGATATGCTTACAAATCCACATTGGATTCATTTCAG 502  
 QY 41 LysTyrProLeuTyrValLeuLysValSerGlyLysGluGlnThrAlaLysAsnAlaIle 60  
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 Db 503 AAGTACCACACTCTATGTTTAAAGGTTTCTGGAAAAAGAACCAAGCCAAATAATGCCATA 562  
 QY 61 TrpIleAspCysGlyTyrIleHisAlaArgGluTrpIleSerProAlaPheCysLeuTrpPhe 80  
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 Db 563 TGGATTGACTGTGGATTCATGCCAGAGATGATCTCTGCTTCTGCTTGTGGTTC 622  
 QY 81 IleGlyHis----- 83  
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 Db 623 ATAGGCCATATAACTCAATTTATGGGATATATAGGCAATATACCAATCTCTGAGGCTT 682  
 QY 83 ----- 83  
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 Db 683 GTGGATTCTATGTAATGCGGCTGTTAATTCGACGGTTATGACTCATGAGAAAG 742  
 QY 84 AsnArgMetTrpArgLysAsnArgSerPheTyrAlaAsnHisCysIleGlyThrAsp 103  
 |||||||  
 Db 743 AATCGAATGTGAGAAAGACCGTTCTTCTATGCGAACATCATTCATCGAGACACAG 802  
 QY 104 LeuAsnArgAsnPheAlaSerLysHisTrpCysGluGluGlyAlaSerSerSerCys 123  
 |||||||  
 Db 803 CTGAATAGGAACCTTGCTTCCAAACACTGTGTGAGGAAGGTCCATCCAGTCCCTCATGC 862  
 QY 124 SerGluThrTyrCysGlyLeuLeuTyrProGluSerGluProGluValAlaValAlaSer 143  
 |||||||  
 Db 863 TCGGAACCTACTGTGACTTATCTCTAGTCAGAACGAGAAAGTGAAGCGTGGCTAGT 922  
 QY 144 PheLeuArgArgAsnIleAsnGlnIleLysAlaTyrIleSerMetHisSerTyrSerGln 163  
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 Db 923 TTCTTGAGAGAAATATATACACAGATTAAGCATATCATCAGATTCATCTCCAG 982  
 QY 164 HisIleValPheProTyrSerTyrThrArgSerLysSerLysAspHisGluGluLeuSer 183  
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 Db 983 CATATAGCTTTCCATATTCCTATACAGCAAGTAAAGCAACCATGAGGAACTGTCT 1042  
 QY 184 LeuValAlaSerGluAlaValArgAlaIleGluLysThrSerLysAsnThrArgTyrThr 203  
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 Db 1043 CTAGTACCGACGTGAAGAGTTCGTCATTTGAGAAACTGTAATAATACAGGTATACA 1102  
 QY 204 HisGlyHisGlySerGluThrLeuTyrLeuAlaProGlyGlyAspAspTyrPheTyr 223  
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 Db 1103 CATGGCCATGGCTCAGAAACCTTATACCTAGCTCTGAGGTGGGACGATTCATCTAT 1162  
 QY 224 AspleuglylleLysTyrSerPhe----- 231  
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 Db 1163 GATTGGGCTCAATATTTGCTTTACATTCGAACCTTCGAGATACGGGCACATTCGATTC 1222  
 QY 232 -----ThSerAsnProProValGluLysLeuLeuProLeuSerLeuLys 246  
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 Db 1223 TTGCTGCCGAGCGTTACATCAACACCACCTGTAGAGAACCTTTGGCGCTGTCTCTAAA 1282  
 QY 246 s 246  
 Db 1283 A 1283  
 RESULT 5  
 US-08-430-787a-2  
 : Sequence 2, Application US/08430787A



Patent No. 5593674  
GENERAL INFORMATION:  
APPLICANT: Drayna, Dennis T., Paton, Dan L.  
TITLE OF INVENTION: NO. 5593674e1 Plasma Carboxypeptidase  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Genentech, Inc.  
STREET: 460 Point San Bruno Blvd  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 5.25 inch, 360 KB floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: patin (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/430.787A  
FILING DATE: 27-APR-1995  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/277,540  
FILING DATE: 19-JUL-1994  
APPLICATION NUMBER: 08/167727  
FILING DATE: 15-DEC-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/959944  
FILING DATE: 14-OCT-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/649591  
FILING DATE: 01-FEB-91  
ATTORNEY/AGENT INFORMATION:  
NAME: Hasak, Janet E.  
REGISTRATION NUMBER: 28,616  
REFERENCE/DOCKET NUMBER: 689D1C1D1  
TELEPHONE: 415/952-1896  
TELEFAX: 415/952-9881  
TELEX: 910/371-7168  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1749 bases  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-430-787A-2  
  
Alignment Scores:  
Pred. No.: 8.77e-151 Length: 1749  
Score: 1272.00 Matches: 246  
Percent Similarity: 81.73% Conservative: 0  
Best Local Similarity: 81.73% Mismatches: 55  
Query Match: 95.07% Indels: 55  
DB: 1 Gaps: 2  
  
US-09-980-881A-4 (1-246) x US-08-430-787A-2 (1-1749)  
QY 1 AlaSerAlaSerTyrTyrGluGlnTyrHisSerLeuAsnGluIleTyrSerTrpIleGlu 20  
DB 383 GCCTCCGCATGCTACTATGACACAGTATCATCACTAATGAATGAAATCTATCTGGATAGAA 442  
QY 21 PheIleThrGluArgHisProAspMetLeuThrLysIleHisIleGlySerSerPheGlu 40  
DB 443 TTTATACCTGAGAGGACCTGATATGCTTACAAAATCCACATTGATCCTCATTTGAG 502  
QY 41 LysTyrProLeuTyrValIleuLysValSerGlyLysGluGlnThrAlaLysAsnAlaIle 60  
DB 503 AAGTACCACCTATGTTTAAAGCTTCTGGAAGAAAGCAAGCAAAATGCCATA 562  
QY 61 TrpIleAspCysGlyIleHisAlaArgGluTrpIleSerProAlaPheCysLeuTrpPhe 80  
DB 563 TGGATTGACTGTGGAATCCATGCCAGAGAAATGATCTCTCCCTGCTTCTGCTTGTGTTTC 622

QY 81 IleGlyHis-----83  
DB 623 ATAGGCCATATATACATTCATTCATGGATAATAGGCAATATACCATCTCTAGGCTT 682  
QY 83 -----83  
DB 683 GTGATTTCTATGTTATGCGCGGTGTTAATGTGACGGTTATGACTCATGAGAAAG 742  
QY 84 AsnArgMetTrpArgLysAsnArgSerPheTyrAlaAsnAsnHisCysTrpIleGlyThrAsp 103  
DB 743 AATCGAATGTGAGAAAGAACCGTTCTTTCTATGCGAACATCATTCGATCGGAACAGAC 802  
QY 104 LeuAsnArgAsnPheAlaSerLysHisTrpCysGluGluGlyAlaSerSerSerCys 123  
DB 803 CTGATAGGAACCTTTGCTTCCAAACACGTGTGTAGGAAGGTGATCCAGTCCCATGC 862  
QY 124 SerGluThrTyrCysGlyLeuTyrProGluSerGluProGluValLysAlaValAlaSer 143  
DB 863 TCGGAACCTACTGTGACTTATCTCTGAGTCAGAACAGAGAGTGAAGGACGTGCTAGT 922  
QY 144 PheLeuArgArgAsnIleAsnGlnIleLysAlaTyrIleSerMetHisSerTyrSerGln 163  
DB 923 TTTCTGAGAGAAATATACACCGATTAAGCATATCAGATCATTCATTCATCTCCAG 982  
QY 164 HisIleValPheProTyrSerTyrThrArgSerLysSerLysAsnHisGluGluLeuSer 183  
DB 983 CATATAGTCTTCCATATTCCTATACAGCAAGTAAAGCAAGACCATGAGGACTGCT 1042  
QY 184 LeuValAlaSerGluAlaValArgAlaIleGlyLysThrSerLysAsnThrArgTyrThr 203  
DB 1043 CTAGTAGCCAGAGAGACAGTCTGCTCTATGAGAAACAGTAAAGTAAACAGTATACA 1102  
QY 204 HisGlyHisGlySerGluThrLeuTyrLeuAlaProGlyGlyGlyAspAspTrpIleTyr 223  
DB 1103 CATGGCCATGGCTCAGAAACCTTATACCTAGCTCTGAGGTGGAGACGATGGATTA 1162  
QY 224 AspLeuGlyIleLysTyrSerPhe-----231  
DB 1163 GATTTGGGCATCAATATTCGTTTACAAATTCGAACCTTCGAGATACGGGCACATACGATTTC 1222  
QY 232 -----ThrSerAsnProProValGluLysLeuLeuProLeuSerLeu 246  
DB 1223 TTGCTGCCGAGCGATTACATCAAAACCTGTAGAGAGCTTTTCCGCTGTCTATAA 1282  
QY 246 s 246  
DB 1283 A 1283  
  
RESULT 6  
US-08-782-760-5  
Sequence 5, Application US/08782760  
Patent No. 5948668  
GENERAL INFORMATION:  
APPLICANT: Hartman, Jacob  
APPLICANT: Fulga, Netta  
APPLICANT: Mendelovitch, Simona  
APPLICANT: Gorecki, Marian  
TITLE OF INVENTION: PRODUCTION OF ENZYMATICALLY ACTIVE  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham LLP  
STREET: 1185 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 10036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30



Percent Similarity: 60.50% Conservative: 44  
 Best Local Similarity: 44.84% Mismatches: 71  
 Query Match: 45.59% Indels: 41  
 DB: 5 Gaps: 5

US-09-980-881a-4 (1-246) x PCT-US96-00995-5 (1-927)

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OY 1 AlaseralaserlytyrlygluInthyHisSerLeuAsnGluIleTySerTrpIleGlu 20
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DB 1 GCAGAGTGACACAGCAGTACCAACAGTACCAACAGTACCAACAGTACCAACAGTACCA 60
OY 21 PheIleThGluArgHisProAspMetLeuThrLysIleHisIleGlySerSerPheGlu 40
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 61 CAAGTGGCCACGATATATCCAGACCTTGTCACTCAGACGCTCATTTGGAAACCAATTGAA 120
OY 41 LysTyProLeuValLeuLysValSerGlyLysGluGlnThrAlaLysAsnAlaIle 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 121 GCACGTAACATGATGCTCTCAAGATT--GGTAAACTAGACCGAATAGCCTGCCATC 177
OY 61 TrpIleAspCysGlyIleHisAlaArgGluTrpIleSerProAlaPheCysLeuTrpPhe 80
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 178 TTCATGATGTTGGTTTCATGCAAGAGGTGATTCTCTGCATTTCTGTCACTGTTT 237
OY 81 Ile----- 81
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DB 238 GTGAGAGAGGCTGCTCGTACTATATCAAGAGATCCACATGAAACAGCTTGATGAA 297
OY 82 -----GlyHis----- 83
DB 298 CTGATTTCTATGTTCTGCTGCTGTGCAACATGATGATGCTATGCTTACACCTGGACTAAG 357
OY 84 AsnArgMetTrpArgLysAsnArgSerPheTyAlaAsnAsnHisCysIleGlyThrAsp 103
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 358 GACAGATGCTGAGAAACCCGCTCTACTATGCGTGGAGAGTCTTGGTGTAGAC 417
OY 104 LeuAsnArgAsnPheAlaSerLysHisTrpCysGluGlnGlyAlaSerSerSerCys 123
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 418 CCCAACAGGAATTTT--AATGCTGCTGTGTGAAGTGGAGCTTCTGGAGTCCCTGC 474
OY 124 SerGluThrTyCysGlyLeuTyProGluSerGluProGluValLysAlaAlaSer 143
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 475 TTGTAACTTACTGTGAGACCCAGAGCTCTGAAAGAGCAAGAGCCCTGGAGAT 534
OY 144 PheLeuArgArgAsnIleAsnGlnIleLysAlaTyrlleSerMetHisSerTySerGln 163
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 535 TTCATGCCGCAACAACCTCCACACATCAAGGCTACCTACCATCCACATATCTACAG 594
OY 164 HisIleValPheProTySerTyThrArgSerLysSerLysAspHisGluGluLeuSer 183
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 595 ATGATGCTCTACCTTACTCTATGACTCAAACTGCCCTGAGAACTATAGAGAAATGAAAT 654
OY 184 LeuValAlaSerGluAlaValArgAlaIleGluLysThrSerLysAsnThrArgTyThr 203
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 655 GCCCTGGTGAAGGTGGCAAGGAGCTT--GCCACTCTCCATGGCACCAAGTACACA 711
OY 204 HisGlyHisGlySerGluThrLeuTyrlleAlaProGlyGlyIleAspAspTrpIleTy 223
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 712 TATGCCCGGAGGAGTACCAACATCTATCTGCTGCGGGGATCTGACAGACTGCTTTAT 771
OY 224 AspLeuGlyIleLysTySerPheThrSerAsnProProValGluLysLeuProLeu 243
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 772 GATCAGGAGAAATATATCTTACCTTTGAAGT--CCGGGATACAGGCTTCTTGGCTT 830
OY 244 Ser 244
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DB 831 TCT 833
  
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RESULT 8  
 US-08-696-139-3  
 : Sequence 3, Application US/08696139  
 : Patent No. 5672496  
 : GENERAL INFORMATION:  
 : APPLICANT: Fayerman, Jeffrey T.

```

? APPLICANT: Greenen, David P.
? APPLICANT: Hersberger, Charles L.
? APPLICANT: Larson, Jeffrey L.
? APPLICANT: Sterner, Jane L.
? APPLICANT: Zhang, Haichao
? TITLE OF INVENTION: DNA SEQUENCES ENCODING PORCINE
? NUMBER OF SEQUENCES: 6
? CORRESPONDENCE ADDRESS:
? ADDRESSER: Eli Lilly and Company
? STREET: Lilly Corporate Center
? CITY: Indianapolis
? STATE: Indiana
? COUNTRY: United States of America
? ZIP: 46285
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/696,139
? FILING DATE:
? CLASSIFICATION: 435
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 08/153,258
? FILING DATE: 16-NOV-1993
? ATTORNEY/AGENT INFORMATION:
? NAME: Gaylo, Paul J.
? REGISTRATION NUMBER: 36,808
? REFERENCE/DOCKET NUMBER: X-8681
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (317) 276-0756
? TELEFAX: (317) 276-3861
? INFORMATION FOR SEQ ID NO: 3:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 921 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: CDNA
? FEATURE:
? NAME/KEY: CDS
? LOCATION: 1..921
? US-08-696-139-3
? Alignment Scores:
? Pred. No.: 5.7e-64 Length: 921
? Score: 582.00 Matches: 117
? Percent Similarity: 59.47% Conservative: 40
? Best Local Similarity: 44.32% Mismatches: 67
? Query Match: 43.50% Indels: 40
? DB: 1 Gaps: 5
? US-09-980-881a-4 (1-246) x US-08-696-139-3 (1-921)
OY 6 TyrgluGlnTyHisSerLeuAsnGluIleTySerTrpIleGluPheIleThrGluArg 25
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 16 TATGAGAGTACACACAGTGGCAACGATCGAGCTTGAGACTAGCACTCACCAGTAA 75
OY 26 HisProAspMetLeuThrLysIleHisIleGlySerSerPheGluLysTyTrpProLeuTy 45
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 76 AATCCAGACCTCATCTCTGACACAGCATCGGACATACATTTTACGAAACATATATAC 135
OY 46 ValLeuLysValSerGlyLysGluGlnThrAlaLysAsnAlaIleTrpIleAspCysGly 65
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 136 CTCCTCAAGTTT--GCCAAACCTGGACCAAAATAACTTCATTTTCATGAGCTGTGCT 192
OY 66 IleHisAlaArgGluTrpIleSerProAlaPheCysLeuTrpPheIle----- 81
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 193 TTCATGCCAGAGATGATTTCCATGCAATTTTGGCAGTGTGTTGTGAGAGAGCTGTT 252
OY 81 ----- 81
  
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Db 253 CTCACCTATGATATGAGAGTACATGACAGAAATTCCTCAACAGCTAGACTTTATGTC 312  
QY 82 -----GLYHIS-----AsnArgMetTrpArg 88  
Db 313 TTGCCTGTGCTCAATATTGATGGTACATGCTACACCTGGACCAAGAACCAATGTGGAGA 372  
QY 89 LysAsnArgSerPheTyrAlaAsnAsnHisCysIleGlyThrAspLeuAsnArgAsnPhe 108  
Db 373 AAGACCGGCTCTACCAATGCTGGAACTACCTGGATGGACAGACCCCAAGAAATTTT 432  
QY 109 AlasertLysHisTrpCysGluGluGlyAlaSerSerSerSerSerSerGluThrTrpCys 128  
Db 433 ---GATGCTGGGTGGTGCACAACTGCCCTGTACAGACCCCTGCCGTGAGACTTACTGT 489  
QY 129 GlyLeuTyrProGluSerGluProGluValAlaValAlaSerPheLeuArgAsn 148  
Db 490 GGAATCTGCTGCACAGTCTGAAAAAGAACCAAGGCCCTGGCTGATTTTATACGCAACAC 549  
QY 149 IleAsnGlnIleLysAlaTyrIleSerMetHisSerTyrSerGlnHisIleValPhePro 168  
Db 550 CTCTCCCTCCATCAAGCATCTGACGATCCACTCATCTACAGATGATGATCTTACCT 609  
QY 169 TyrSerTyrThrArgSerLysSerLysAspHisGluGluLeuSerLeuValAlaSerGlu 188  
Db 610 TATTCCTATATTACAAACTCCCGAGAACATGCTGATTGAATTAACCTGGCTAAAGCT 669  
QY 189 AlaValArgAlaIleGluLysThrSerLysAsnThrArgTyrThrHisGlyHisGlySer 208  
Db 670 GCGCTGAAGAACT---GCTACACTGTATGGCACCAGAACATACAGGCCAGAGGCT 726  
QY 209 GluThrLeuTyrLeuAlaProGlyGlyGlyLysAspTrpIleTyrAspLeuGlyIleLys 228  
Db 727 ACAACATCTCTCTGCTGCTGGGGCTGTGATGACTGGGCTTATGCAAGAAATCAAA 786  
QY 229 TyrSerPheThr 232  
Db 787 TATTCCTTCCAC 798

RESULT 9  
US-08-696-139-1  
Sequence 1, Application US/08696139  
Patent No. 5672496  
GENERAL INFORMATION:  
APPLICANT: Fayerman, Jeffrey T.  
APPLICANT: Greenen, David P.  
APPLICANT: Hersberger, Charles L.  
APPLICANT: Larson, Jeffrey L.  
APPLICANT: Steiner, Jane L.  
APPLICANT: Zhang, Hailiao  
TITLE OF INVENTION: DNA SEQUENCES ENCODING PORCINE  
NUMBER OF SEQUENCES: 6  
PANCHEATIC CARBOXYPEPTIDASE B  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Eli Lilly and Company  
STREET: Lilly Corporate Center  
CITY: Indianapolis  
STATE: Indiana  
COUNTRY: United States of America  
ZIP: 46285  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: IBM PC compatible  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/696,139  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/153,258  
FILING DATE: 16-NOV-1993  
ATTORNEY/AGENT INFORMATION:

NAME: Gaylo, Paul J.  
REGISTRATION NUMBER: 36,808  
REFERENCE/DOCKET NUMBER: X-8681  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (317) 276-0756  
TELEFAX: (317) 276-3861  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1215 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: CDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..1215  
US-08-696-139-1  
Alignment Scores:  
Pred. No.: 8,92e-64 Length: 1215  
Score: 582.00 Matches: 117  
Percent Similarity: 59.47% Conservative: 40  
Best Local Similarity: 44.32% Mismatches: 67  
Query Match: 43.50% Indels: 40  
Gaps: 5  
US-09-980-881a-4 (1-246) x US-08-696-139-1 (1-1215)  
QY 6 TyrGluGlnTyrHisSerLeuAsnGluIleTyrSerTrpIleGluPheIleThrGluArg 25  
Db 310 TATGACAGATACCAACAGTGGGAAACGATGCAAGCTTGGACTAAGCAATCAACAGTGA 369  
QY 26 HisProAspMetLeuThrIleLysIleHisIleGlySerSerPheGluLysTrpProLeuTyr 45  
Db 370 AATCCAGACCTCATCTCTGCAACAGCCATCGGACACTGATTTTGAAGAACATATATAC 429  
QY 46 ValLeuLysValSerGlyLysGluGlnThrAlaLysAsnAlaIleTrpIleAspCysGly 65  
Db 430 CTCCCTCAAGCT---GGCAACCTGGACCAAAATTAAGCCCTGATTTTCATGAGCTGTGT 486  
QY 66 IleHisAlaArgGluTrpIleSerProAlaPheCysLeuTrpPheIle----- 81  
Db 487 TTCATGCCACAGAAATGATTTCCATGCCATTTTGGCAGTGGTTGTGAGAGAGCTGTT 546  
QY 81 ----- 81  
Db 547 CTCACCTATGATATGAGAGTCAATGACAGAAATTCCTCAACAGCTAGACTTTATGTC 606  
QY 82 -----GLYHIS-----AsnArgMetTrpArg 88  
Db 607 TTGCCTGTGCTCAATATTGATGGCTACATCTACACCTGGACCAAGAACCAATGTGGAGA 666  
QY 89 LysAsnArgSerPheTyrAlaAsnAsnHisCysIleGlyThrAspLeuAsnArgAsnPhe 108  
Db 667 AAGACCGGCTCTACCAATGCTGGAACTACCTGATTTGGCAGAGACCCCAAGAAATTTT 726  
QY 109 AlasertLysHisTrpCysGluGluGlyAlaSerSerSerSerSerSerGluThrTrpCys 128  
Db 727 ---GATGCTGGGTGGTGCACAACTGGACCTGTACAGACCCCTGGAGTAGACTTACTGT 783  
QY 129 GlyLeuTyrProGluSerGluProGluValAlaValAlaSerPheLeuArgAsn 148  
Db 784 GGAATCTGCTGCACAGTCTGAAAAAGAACCAAGGCCCTGGCTGATTTTATACGCAACAC 843  
QY 149 IleAsnGlnIleLysAlaTyrIleSerMetHisSerTyrSerGlnHisIleValPhePro 168  
Db 844 CTCTCCCTCCATCAAGCATCTGACGATCCACTCATCTACAGATGATGATCTTACCT 903  
QY 169 TyrSerTyrThrArgSerLysSerLysAspHisGluGluLeuSerLeuValAlaSerGlu 188  
Db 904 TATTCCTATGATTAACAACTCCCGAGAACATCTGATTGAATTAACCTGGCTAAAGCT 963  
QY 189 AlaValArgAlaIleGluLysThrSerLysAsnThrArgTyrThrHisGlyHisGlySer 208

Db 964 GCCGGAAGACTT---GCTACACTGTATGGCACCAAGTACACATACAGGCCAGAGACT 1020  
 Oy 209 GlnPheLeuTyrlLeuAlaProGlyGlyAspSerPheIleTyAspLeuGlyIleLys 228  
 Db 1021 ACACAAATCTATCTCTGCTGCGGGCTCTGTATGACTGGCTTATGACCAAGAAATCAAA 1080  
 Oy 229 TySerPheThr 232  
 Db 1081 TATTCCTTACC 1092  
 RESULT 10  
 US-08-860-882A-67  
 : Sequence 67, Application US/08860882A  
 : Patent No. 5985281  
 : GENERAL INFORMATION:  
 : APPLICANT: TAYLORSON, CHRISTOPHER JOHN  
 : APPLICANT: EGGELTE, HENDRIKUS JOHANNES  
 : APPLICANT: TARRAGONA-FIOL, ANTONIO  
 : APPLICANT: RABIN, BRIAN ROBERT  
 : APPLICANT: BOYLE, FRANCIS THOMAS  
 : APPLICANT: HENNAM, JOHN FREDERICK  
 : APPLICANT: BLAKEY, DAVID CHARLES  
 : APPLICANT: MARSHAM, PETER ROBERT  
 : APPLICANT: HEATON, DAVID WILLIAM  
 : TITLE OF INVENTION: CHEMICAL COMPOUNDS  
 : NUMBER OF SEQUENCES: 77  
 : CORRESPONDENCE ADDRESSES:  
 : ADDRESSEE: PILLSBURY, MADISON & SUTRO  
 : STREET: 1100 NEW YORK AVENUE, N.W.  
 : CITY: WASHINGTON  
 : STATE: D.C.  
 : COUNTRY: USA  
 : ZIP: 20005  
 : COMPUTER READABLE FORM:  
 : MEDIUM TYPE: Floppy Disk  
 : OPERATING SYSTEM: IBM compatible  
 : SOFTWARE: Patentin Release #1.0, Version #1.25  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/08/860,882A  
 : FILING DATE: JUNE 23, 1997  
 : CLASSIFICATION: 424  
 : ATTORNEY/AGENT INFORMATION:  
 : NAME: DONALD J. BIRD  
 : REGISTRATION NUMBER: 25,322  
 : REFERENCE/DOCKET NUMBER: 9901/238653  
 : TELECOMMUNICATION INFORMATION:  
 : TELEPHONE: (202) 861-3027  
 : TELEFAX: (202) 822-0944  
 : TELEX: 6174627 CUSH  
 : INFORMATION FOR SEQ ID NO: 67:  
 : SEQUENCE CHARACTERISTICS:  
 : LENGTH: 999 bases  
 : TYPE: nucleic acid  
 : STRANDEDNESS: single  
 : TOPOLOGY: linear  
 : US-08-860-882A-67  
 Alignment Scores:  
 Pred. No.: 5.13e-62 Length: 999  
 Score: 567.00 Matches: 111  
 Percent Similarity: 58.36% Conservative: 46  
 Best Local Similarity: 41.26% Mismatches: 72  
 Query Match: 42.38% Indels: 40  
 DB: 2 Gaps: 5  
 US-09-980-881A-4 (1-246) x US-08-860-882A-67 (1-999)  
 Oy 1 AlAserAlaSerTyTyGluGlnTyrlHisSerLeuAsnGluIleTySerTrpIleGlu 20  
 Db 67 GCAACTGTCACTTACGAGAAATCAACAAGTGGAAACGATAGAGGCTTGACTCAAA 126

Oy 21 PheIleThrGluIArgHisProAspMetLeuThrLysIleHisIleGlySerSerPheGlu 40  
 Db 127 CAAGTCGCCACGACGACAAATCCACCCTCATCTCCGACAGTGTATGGAACCAATTTGAG 186  
 Oy 41 LysTyProLeuTyValLeuLysValSerGlyLysGluInThrAlaLysAsnAlaIle 60  
 Db 187 GCACCGCTATTACCTCCTGAAGTT---GCCAAGCTGACAAATAATAGCCTGCAT 243  
 Oy 61 TrpIleAspCysGlyIleHisAlaArgGluTrpIleSerProAlaPheCysLeuTrpPhe 80  
 Db 244 TTCATGAGCTGTGTTTCCATGTCAGAGAGTGATTTTCCTGCAATTCGACAGTGTT 303  
 Oy 81 Ile----- 81  
 Db 304 GTAAGAGAGCTTTCGTAACCTATGAGCTGAGATTCACCAAGTACAGAGCTTCCAGCAAG 363  
 Oy 82 -----GlyHis----- 83  
 Db 364 TTAGACTTTATGCTCCTGCTGCTGCATATTTGATGGCTACATCTGACCAAG 423  
 Oy 84 AsnArgMetTrpArgLysAsnArgSerPheTyrlAlaAsnHisCysIleGlyThrAsp 103  
 Db 424 ACCGCAATTTTGAGAAAGACTGCTCCACCATCTGATCTGATCTGATGCTGATGCGACAGAC 483  
 Oy 104 LeuAsnArgAsnPheAlaSerLysHisTrpCysGluGluGlyAlaSerSerSerCys 123  
 Db 484 CCCAAGCAAAATTTT---GATCTGCTGTGTGTGAATTTGAGACCTCTGAAACCCCTGT 540  
 Oy 124 SerGluThrTyrcysGlyLeuTyProGluSerGluProGluValLysAlaValAlaSer 143  
 Db 541 GATGAACCTTACTGTGAGCTCCGACAGTCTGAAAGAGACCAAGGCCCTGCTGAT 600  
 Oy 144 PheLeuArgArgAsnIleAsnGlnIleLysAlaTyrlIleSerMetHisSerTrpSerGln 163  
 Db 601 TTCATCCGCAACAACTCTTCCATCAAGGCATCTGACATCCACTCCTGATCCCA 660  
 Oy 164 HisIleValPheProTyrlSerTyrlThrArgSerLysSerLysAspHisGluGluLeuSer 183  
 Db 661 ATGATGATCTACCTTACTCATATGCTTCAACATCGGAGACCAATCTAGTTGAT 720  
 Oy 184 LeuValAlaSerGluAlaValArgAlaIleGluLysThrSerLysAsnThrArgTyrlThr 203  
 Db 721 GCCCTGGCTAAGCTAGCTGAAGAACTT---GCCTGCTCAGCGGCAAGCAATACACA 777  
 Oy 204 HisGlyHisGlySerGluThrLeuTyrlLeuAlaProGlyGlyLysAspSerPheIleTy 223  
 Db 778 TATGCCCCGGAGCTACACAAATCTATCTGCTGCGGGCTCTGACAGACTGCGCTTAT 837  
 Oy 224 AspLeuGlyIleLysTySerPheThr 232  
 Db 838 GACCAAGGATCATGATATTCCTTACC 864  
 RESULT 11  
 US-09-011-769A-50  
 : Sequence 50, Application US/09011769A  
 : Patent No. 6436591  
 : GENERAL INFORMATION:  
 : APPLICANT: SLATER, Anthony M.  
 : BLAKEY, David C.  
 : DAVIES, David H.  
 : HENNAM, John F.  
 : HENNEQUIN, Laurent F.A.  
 : MARSHAM, Peter R.  
 : DOWELL, Robert I.  
 : TITLE OF INVENTION: Chemical Compounds  
 : NUMBER OF SEQUENCES: 87  
 : CORRESPONDENCE ADDRESSES:  
 : ADDRESSEE: Pillsbury Madison & Sutro, LLP  
 : STREET: 1100 New York Ave., N.W.  
 : CITY: Washington  
 : STATE: D.C.  
 : COUNTRY: U.S.A.

ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 1.44 Mb disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: MS Word  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/011,769A  
FILING DATE: 13-Feb-1998  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/GB96/01975  
FILING DATE: 13-AUG-1996  
APPLICATION NUMBER: GB 9612295.7  
FILING DATE: 12-JUN-1996  
APPLICATION NUMBER: GB 9611019.2  
FILING DATE: 25-MAY-1996  
APPLICATION NUMBER: GB 9516810.0  
INFORMATION FOR SEQ ID NO: 50:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 999 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..987  
FEATURE:  
NAME/KEY: mat\_peptide  
LOCATION: 67..987  
SEQUENCE DESCRIPTION: SEQ ID NO: 50:  
US-09-011-769A-50  
Alignment Scores:  
Pred. No.: 5,13e-62 Length: 999  
Score: 567.00 Matches: 111  
Percent Similarity: 58.36% Conservative: 46  
Best Local Similarity: 41.26% Mismatches: 72  
Query Match: 42.38% Indels: 40  
DB: 4 Gaps: 5  
US-09-980-881a-4 (1-246) x US-09-011-769A-50 (1-999)  
QY 1 AlaSerAlaSerTyrGluGlnTyrHisSerLeuAsnGluIleTyrSerTrpIleGlu 20  
DB 67 GCAACTGGCTACTCTTAGCAAGATACACAGTGGAAACGATAGAGCTTGACTCA 126  
QY 21 PheIleThrGluArgHisProAspMetLeuThrLysIleHisIleGlySerSerPheGlu 40  
DB 127 CAAGTCGCCACTGAGAAATCCAGCCCTCATCTCCGAGTGTATCGAAGCACAATTGAG 186  
QY 41 LysTyrProLeuTyrValLeuLysValSerGlyLysGluGlnThrAlaLysAsnIle 60  
DB 187 GACCCGCTATTACCTCTGAAGGT--GGCAAGCTGGACAAATTAAGCTGCCATT 243  
QY 61 TrpIleAspCysGlyIleHisAlaArgGluTrpIleSerProAlaPheCysLeuTrpPhe 80  
DB 244 TTCATGAGACTGTGGTTTCCATGCCAGAGAGTGATTTCTCTGCATTCTGCCAGTGGTTT 303  
QY 81 Ile----- 81  
DB 304 GTAAAGAGGCTGTCTGATACATATGAGAGTGAGATGACAGAGCTTCTGCAAG 363  
QY 82 -----GlyHis----- 83  
DB 364 TTAGACTTTATGCTGCTGCTGCTCAATATGATGATGATGATGATGATGATGATGAT 423  
QY 84 AsnArgMetTrpArgLysAsnArgSerPheTyrAlaAsnAsnHisCysIleGlyThrAsp 103  
DB 424 AGCGATTTTGGAGAAAGACTGCTCCAGCCCACTACTGATGATGATGATGATGATGATGAT 483

QY 104 LeuAsnArgAsnPheAlaSerLysHisTrpCysGluGluAlaSerSerSerCys 123  
DB 484 CCACAGAGAAATTTT--GATGCTGGTGTGTAATTTGAGAGCTCTGGAAGACCCCTGT 540  
QY 124 SerGluThrTyrCysGlyLeuTyrProGluSerGluProGluValLysAlaValaSer 143  
DB 541 GATGAACCTTACTGTGACCTCCGCGAGAGTGTGAAGAGACCAAGCCCTGGCTGAT 600  
QY 144 PheLeuArgArgAsnIleAsnGlnIleLysAlaTyrIleSerMetHisSerTyrSerGln 163  
DB 601 TTCATCCGCAACAACCTCTTCCATCAAGGCATATCTACATCACTCACTGCTCCCA 660  
QY 164 HisIleValPheProTyrSerTyrThrArgSerLysSerLysAspHisGluGluLeuSer 183  
DB 661 AGGATGATCTACCTTACTCATATGCTTCAACAACCTCGTGAAGACAAATCGTAGTGAAT 720  
QY 184 LeuValAlaSerGluAlaValArgAlaIleGluLysThrSerLysAsnThrArgTyrThr 203  
DB 721 GCCCTGGCTAAAGCTACTGTGAAGAACTT--GCCTCACTGACCGGCAAGATACACA 777  
QY 204 HisGlyHisGlySerGluThrLeuTyrLeuAlaProGlyGlyLysAspSerTrpIleTyr 223  
DB 778 TATGGCCCGGAGGACTACAAACAATCTATCTGCTGCTGGGGGCTGTGACAGCTGGCTTAT 837  
QY 224 AspLeuGlyIleLysTyrSerPheThr 232  
DB 838 GACCAAGAAATCAGATATCTTCCACC 864  
RESULT 12  
US-08-860-882A-64  
Sequence 64, Application US/08860882A  
Patent No. 5985281  
GENERAL INFORMATION:  
APPLICANT: TAYLORSON, CHRISTOPHER JOHN  
APPLICANT: EGGELTE, HENDRIKUS JOHANNES  
APPLICANT: TARRAGONA-FIOL, ANTONIO  
APPLICANT: RABIN, BRIAN ROBERT  
APPLICANT: BOYLE, FRANCIS THOMAS  
APPLICANT: HENNAM, JOHN FREDERICK  
APPLICANT: BLAKELY, DAVID CHARLES  
APPLICANT: MARSHAM, PETER ROBERT  
APPLICANT: HEATON, DAVID WILLIAM  
APPLICANT: DAVIES, DAVID HOW  
TITLE OF INVENTION: CHEMICAL COMPOUNDS  
NUMBER OF SEQUENCES: 77  
CORRESPONDENCE ADDRESS:  
ADDRESS: PILLSBURY, MADISON & SUTRO  
STREET: 1100 NEW YORK AVENUE, N.W.  
CITY: WASHINGTON  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy Disk  
COMPUTER: IBM compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/860, 882A  
FILING DATE: JUNE 23, 1997  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: DONALD J. BIRD  
REGISTRATION NUMBER: 25,323  
REFERENCE/DOCKET NUMBER: 9901/238653  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 861-3027  
TELEFAX: (202) 822-0944  
TELEX: 6174627 CUSH  
INFORMATION FOR SEQ ID NO: 64:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1053 bases  
TYPE: nucleic acid

STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-860-882A-64

Alignment Scores:  
Pred. No.: 5.58e-62 Length: 1053  
Score: 567.00 Matches: 111  
Percent Similarity: 58.36% Conservative: 46  
Best Local Similarity: 41.26% Mismatches: 72  
Query Match: 42.38% Indels: 40  
DB: 2 Gaps: 5

US-09-980-881A-4 (1-246) x US-08-860-882A-64 (1-1053)

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QY 1 AlaserAlaserTyrTyrGluGluTyrHisSerLeuasnGluTyrSerTrpIleGlu 20
DB 67 GCACAGGTCACCTTACAGAGAGTACAAAGTGGAAACGATAGAGCTTGACTCAA 126
QY 21 PheIleThrGluArgHisProAspMetLeuThrLysIleHisIleGlySerSerPheGlu 40
DB 127 CAAGTCGCCACAGAGATCCAGCCCTCATCTCCGACGTGTATCGAACCACATTGAG 186
QY 41 LysTyrProLeuTyrValLeuLysValSerGlyLysGluGlnThrAlaLysAsnAlaIle 60
DB 187 GGACGGCGTATTACCTCCTGAGGTT---GGCAAGCTGGACAAATAGAGCTGCCATT 243
QY 61 TrpIleAspCysGlyIleHisAlaArgGluTrpIleSerProAlaPheCysLeuTrpPhe 80
DB 244 TTCATGAGACTGCTGCTTCATGTCAGAGAGTGATTTCTCTCATTCCTGCGAGTGT 303
QY 81 Ile-----GlyHis-----81
DB 304 GTAAGAGAGCTGTCTGCTACCTATGAGCTGAGATCCAAAGTGACAGAGCTTTCGACAA 363
QY 82 -----GlyHis-----83
DB 364 TAGACTTTTATGCTCCTGCTGCTCAATATGATGATGCTACATCAGACCTGGACCAAG 423
QY 84 AsnArgMetTrpArgLysAsnArgSerPheTyrAlaAsnAsnHisCysIleGlyThrAsp 103
DB 424 ACCCGATTGAGAAAGACTCGCTCCACCACACTGATCTGATCTGATGCGACACAGAC 483
QY 104 LeuAsnArgAsnPheAlaSerLysHisTrpCysGluGluGlnLysSerSerSerCys 123
DB 484 CCCAACAGAAATTTT---GATGCTGCTGCTGTAATGAGACCTCTCGAAACCCCTGT 540
QY 124 SerGluThrTyrCysGlyLeuTyrProGluSerGluProGluValLysAlaValAlaSer 143
DB 541 GATGAAGACTTACTGCTGACCTGCGCAGAGTCTGAAAGAGACCAAGGCCCTGGCTGAT 600
QY 144 PheLeuArgArgAsnIleAsnGlnIleLysAlaTyrIleSerMetHisSerTyrSerGln 163
DB 601 TTCATCCGCAACAACTCTTCCATCAAGGCTATCTGACATCTCATCTGATCCCA 660
QY 164 HisIleValPheProTyrSerTyrThrArgSerLysSerLysAspHisGluGluLeuSer 183
DB 661 ATGATGATCTACCTTACCTATGCTTACAAAGCTGGGAGAACATGCTGAGTGAAT 720
QY 184 LeuValAlaSerGluAlaValArgAlaIleGluLysThrSerLysAsnThrArgTyrThr 203
DB 721 GCCCTGGCTAAAGCTACTGTGAAAGACTT---GCCCTGACTGCAGCGCAACAGTACACA 777
QY 204 HisGlyHisIleGlySerGluThrLeuTyrLeuAlaProGlyLysLysAspTrpIleTyr 223
DB 778 TATGGCCCGGAGACTACAAACATCTTCTGCTGCTGCGGCTCTGACGACTGGCTTAT 837
QY 224 AspLeuGlyIleLysTyrSerPheThr 232
DB 838 GACACAGGAATCAGATATTCTTCACC 864

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RESULT 13  
US-09-011-769A-46  
; Sequence 46, Application US/09011769A

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? Patent No. 6436691
? GENERAL INFORMATION:
? APPLICANT: SLADER, Anthony M.
? BLAKEY, David C.
? DAVIES, David H.
? HENNAM, John F.
? HENNEQUIN, Laurent F.A.
? MARSHAM, Peter R.
? DOWELL, Robert I.
? TITLE OF INVENTION: Chemical Compounds
? NUMBER OF SEQUENCES: 87
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Pillsbury Madison & Sutro, LLP
? STREET: 1100 New York Ave., N.W.
? CITY: Washington
? STATE: D.C.
? COUNTRY: U.S.A.
? ZIP: 20005
? COMPUTER READABLE FORM:
? MEDIUM TYPE: 1.44 Mb disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: MS Word
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/09/011,769A
? FILING DATE: 13-Feb-1998
? CLASSIFICATION: <Unknown>
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: PCT/GB96/01975
? FILING DATE: 13-Aug-1996
? APPLICATION NUMBER: GB 9612295.7
? FILING DATE: 12-JUN-1996
? APPLICATION NUMBER: GB 9611019.2
? FILING DATE: 25-MAY-1996
? APPLICATION NUMBER: GB 9516810.0
? FILING DATE: 16-AUG-1995
? INFORMATION FOR SEQ ID NO: 46:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 1053 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: other nucleic acid
? FEATUERE:
? NAME/KEY: CDS
? LOCATION: 1..1047
? NAME/KEY: mat_peptide
? LOCATION: 67..1047
? SEQUENCE DESCRIPTION: SEQ ID NO: 46:
? US-09-011-769A-46
?
? Alignment Scores:
? Pred. No.: 5.58e-62 Length: 1053
? Score: 567.00 Matches: 111
? Percent Similarity: 58.36% Conservative: 46
? Best Local Similarity: 41.26% Mismatches: 72
? Query Match: 42.38% Indels: 40
? DB: 4 Gaps: 5
?
? US-09-980-881A-4 (1-246) x US-09-011-769A-46 (1-1053)
?
QY 1 AlaserAlaserTyrTyrGluGluTyrHisSerLeuasnGluTyrSerTrpIleGlu 20
DB 67 GCACAGGTCACCTTACAGAGAGTACAAAGTGGAAACGATAGAGCTTGACTCAA 126
QY 21 PheIleThrGluArgHisProAspMetLeuThrLysIleHisIleGlySerSerPheGlu 40
DB 127 CAAGTCGCCACAGAGATCCAGCCCTCATCTCCGACGTGTATCGAACCACATTGAG 186
QY 41 LysTyrProLeuTyrValLeuLysValSerGlyLysGluGlnThrAlaLysAsnAlaIle 60
DB 187 GGACGGCGTATTACCTCCTGAGGTT---GGCAAGCTGGACAAATAGAGCTGCCATT 243

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QY 61 TrpIleAspCysGlyIleHisAlaArgIleuTrpIleSerProAlaPheCysLeuTrpPhe 80
Db 244 TTCATGAGACTGTGGTTTCATGCGCAGAGAGTGGATTTCCTGCAATTCGCCAGTGGTTT 303
QY 81 Ile----- 81
Db 304 GATAGAGAGCGTGTCTGACTATGAGACGTGATCCAAAGTGCAGAGCTTCTGACAAAG 363
QY 82 -----GlyHis----- 83
Db 364 TTAGACTTTTATGTCCTGCTGCTGCTCAATATGATGGCTTCACTTACACCTGGAACAG 423
QY 84 AsnArgMetTrpArgLysAsnArgSerPheTyAlaAsnAsnHisCysIleGlyThrAsp 103
Db 424 AGCGGATTTGGAGAAAGACTGCGTCCACCATCTAGTATGATCTAGCTGATTTGGCAGAC 483
QY 104 LeuAsnArgAsnPheAlaSerLysHisTrpCysGluGluAlaSerSerSerCys 123
Db 484 CCCACAGAAATTTT---GATGCTGTTGGTGTGAATTTGGAGCCTCTCGAAACCCCTGT 540
QY 124 SerGluThrTrpCysGlyLeuTyProGluSerGluProGluValLysAlaValAlaSer 143
Db 541 GATGAACCTTACTGTGACCTGCGCCGAGAGTCTGAAGAAGGACCAAGGCCCTGGCTGAT 600
QY 144 PheLeuArgArgAsnIleAsnGlnIleLysAlaTyrlleSerMetHisSerTrpSerGln 163
Db 601 TTCATCGCAGCAACAACTCTTCCATCAGACGATATGCAATTCACCTGATCTCCAA 660
QY 164 HisIleValPheProTySerTrpThrArgSerLysSerLysAspHisGluLeuSer 183
Db 661 ATGATGATCTACCTTACTGATGCTTATGCTTACAAACTCGTGAGAAATTCGATTTAAAT 720
QY 184 LeuValAlaSerGluValAlaArgAlaIleGluTySerLysAsnThrArgTyThr 203
Db 721 GCCCTGCTAAAGCTACTGTGAAGAAGACT---GCCCTACTGCGAGGCCACCACTACACA 777
QY 204 HisGlyHisGlySerGluThrLeuTyLeuAlaProGlyLysAspAspTrpIleTy 223
Db 778 TATGGCCCGGAGCTTACAAACATCTATCTGCTGGGGGCTCTGACGACTGGCTTAT 837
QY 224 AspleuGlyIleLysTySerPheThr 232
Db 838 GACCAAGCATCAGATATCTCTTCACC 864

RESULT 14
US-08-860-882A-56
Sequence 56, Application US/08860882A
Patent No. 5985281
GENERAL INFORMATION:
APPLICANT: TAYLORSON, CHRISTOPHER JOHN
APPLICANT: EGGLESTE, HENDRIKUS JOHANNES
APPLICANT: TARRAGONA-FIOL, ANTONIO
APPLICANT: RABIN, BRIAN ROBERT
APPLICANT: BOYLE, FRANCIS THOMAS
APPLICANT: HENNAM, JOHN FREDERICK
APPLICANT: BLAKELY, DAVID CHARLES
APPLICANT: MARSHAM, PETER ROBERT
APPLICANT: HEATON, DAVID WILLIAM
APPLICANT: DAVIES, DAVID HOW
TITLE OF INVENTION: CHEMICAL COMPOUNDS
NUMBER OF SEQUENCES: 77
CORRESPONDENCE ADDRESS:
ADDRESSEE: PILLSBURY, MADISON & SUTRO
STREET: 1100 NEW YORK AVENUE, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: IBM compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

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SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/860, 882A
FILING DATE: JUNE 23, 1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: DONALD J. BIRD
REGISTRATION NUMBER: 25,323
REFERENCE/DOCKET NUMBER: 9901/238653
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 861-3027
TELEFAX: (202) 822-0944
TELEX: 6174627 CUSH
INFORMATION FOR SEO ID NO: 56:
SEQUENCE CHARACTERISTICS:
LENGTH: 1263 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-860-882A-56

Alignment Scores:
Pred. No.: 7,49e-62 Length: 1263
Score: 567.00 Matches: 111
Percent Similarity: 58.36% Conservative: 46
Best Local Similarity: 41.26% Mismatches: 72
Query Match: 42.38% Indels: 40
DB: 2 Gaps: 5

US-09-980-881A-4 (1-246) x US-08-860-882A-56 (1-1263)
QY 1 AlaSerAlaSerTyTrpGluGlnTyrlleHisSerLeuAsnGluLeuTySerTrpIleGlu 20
Db 325 GCACAGAGACAGACGTTATGAGAGTACACACAGTGGAAACGATGAGCGTTGACTCAA 384
QY 21 PheIleThrGluArgHisProAspMetLeuThrLysIleHisIleGlySerSerPheGlu 40
Db 385 CAAATGCGCCACTGAGATGACAGCCCTCATCTCGCAGTGTATCGAACCACTTTGAG 444
QY 41 LysTyProLeuTyValLeuLysValSerGlyLysGluGlnThrAlaLysAlaIle 60
Db 445 GAGCGGCGTATTTACTCTCGAAGGTT---GCCAAAGTGGACMAAATGAGCTTGCAAT 501
QY 61 TrpIleAspCysGlyIleHisAlaArgIleuTrpIleSerProAlaPheCysLeuTrpPhe 80
Db 502 TTCATGAGCTGTGTTTCATGCGCAGAGTGGATTTCTCTGCAATTCGCCAGTGGTTT 561
QY 81 Ile----- 81
Db 562 GATAGAGAGCGTGTGCTGACTATGAGACGTGATCCAAAGTGCAGAGCTTCTGCAAG 621
QY 82 -----GlyHis----- 83
Db 622 TTAGACTTTTATGTCCTGCTGCTGCTCAATATGATGGCTTCACTTACACCTGGAACAG 681
QY 84 AsnArgMetTrpArgLysAsnArgSerPheTyAlaAsnAsnHisCysIleGlyThrAsp 103
Db 682 AGCGGATTTGGAGAAAGACTGCGTCCACCATCTAGTATGATCTAGCTGATTTGGCAGAC 741
QY 104 LeuAsnArgAsnPheAlaSerLysHisTrpCysGluGluAlaSerSerSerCys 123
Db 742 CCCACAGAAATTTT---GATGCTGTTGGTGTGAATTTGGAGCCTCTCGAAACCCCTGT 798
QY 124 SerGluThrTrpCysGlyLeuTyProGluSerGluProGluValLysAlaValAlaSer 143
Db 799 GATGAACCTTACTGTGAGACCTGCCGACAGTGTGAAGAAGACCAAGGCCCTGGCTAT 858
QY 144 PheLeuArgArgAsnIleAsnGlnIleLysAlaTyrlleSerMetHisSerTrpSerGln 163
Db 859 TTCATCGCAGCAACAACTCTTCCATCAAGGATATGACATCTGACATCTGCTGATCCCAA 918
QY 164 HisIleValPheProTySerTrpThrArgSerLysSerLysAspHisGluLeuSer 183

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Db 919 ATGATGATCTACCTTACTCATATGCTTACAAACTCGGTGAGAACATCTGAGTTGAAT 978  
 QY 184 LeuValAlaSerGluAlaValArgAlaIleGluThrSerLysAsnThrArgTyrThr 203  
 Db 979 GCCCTGGCTAAAGCTACTGTGTAAGACTT---GCCCTACTGACGCGACGACAGTACACA 1035  
 QY 204 HisGlyHisGlySerGluThrLeuTyrLeuAlaProGlyGlyGlyAspAspTrpIleTyr 223  
 Db 1036 TATGGCCGGGAGGACTACAAACATCTATCTGCTGGGGGCTGTGACAGACTGGGCTTAT 1095  
 QY 224 AspleuGlyIleLysTyrSerPheThr 232  
 Db 1096 GACCAAGAAATCAGATATTCCTTCAAC 1122

## RESULT 15

US-09-011-769A-38  
 Sequence 38, Application US/09011769A  
 Patent No. 6436691

## GENERAL INFORMATION:

APPLICANT: SLATER, Anthony M.

BLAKEY, David C.

DAVIES, David H.

HENNAM, John F.

HENNEQUIN, Laurent F.A.

MARSHAM, Peter R.

DOMELL, Robert I.

TITLE OF INVENTION: Chemical Compounds

NUMBER OF SEQUENCES: 87

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Pillsbury Madison & Sutro, LLP

STREET: 1100 New York Ave., N.W.

CITY: Washington

STATE: D.C.

COUNTRY: U.S.A.

ZIP: 20005

COMPUTER READABLE FORM:

MEDIUM TYPE: 1.44 Mb disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: MS Word

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/011,769A

FILING DATE: 13-Feb-1998

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/GB96/01975

FILING DATE: 13-AUG-1996

APPLICATION NUMBER: GB 9612295.7

FILING DATE: 12-JUN-1996

APPLICATION NUMBER: GB 9611019.2

FILING DATE: 25-MAY-1996

APPLICATION NUMBER: GB 9516810.0

FILING DATE: 16-AUG-1995

INFORMATION FOR SEQ ID NO: 38:

SEQUENCE CHARACTERISTICS:

LENGTH: 1263 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: other nucleic acid

SEQUENCE DESCRIPTION: SEQ ID NO: 38:

US-09-011-769A-38

Alignment Scores:

Pred. No.: 7.49e-62

Score: 567.00

Percent Similarity: 58.36%

Best Local Similarity: 41.26%

Query Match: 42.38%

DB: 4

Length: 1263  
 Matches: 111  
 Conservative: 46  
 Mismatches: 72  
 Indels: 40  
 Gaps: 5

US-09-980-881A-4 (1-246) x US-09-011-769A-38 (1-1263)

QY 1 AlaSerAlaSerTyrTyrGluIntTyrHisSerLeuAsnGluIleTyrSerTrpIleGlu 20  
 Db 325 GCAACAGGACACAGTTATGAGTAAGTACAAACAGTGGGAACAGTACAGCTTGACTCA 384  
 QY 21 PheIleThrGluArgHisProAspMetLeuThrLysIleHisIleGlySerSerPheGlu 40  
 Db 385 CAAGTCGCCACTGACAAATCCACCCCTCATCTCCAGTGTATGGAACCAATTGAG 444  
 QY 41 LysTyrProLeuTyrValLeuLysValSerGlyLysGluIntThrAlaLysAsnAlaIle 60  
 Db 445 GGACCGCGCATTTTACTCTCTGAAGCTT---GCCAAAGCTGGCAAAATTAAGCTGCATT 501  
 QY 61 TrpIleAspCysGlyIleHisAlaArgGluTrpIleSerProAlaPheCysLeuTrpPhe 80  
 Db 502 TTCATGAGACTGTGTTCATGCCAGAGATGATTTCTCTGCATTTCTGCCAGTGT 561  
 QY 81 Ile----- 81  
 Db 562 GTTAGAGAGGCTGTCTGTAACCTATGAGAGCTGAGATCCAGTACAGAGCTTCTGCAAG 621  
 QY 82 -----GLYHis----- 83  
 Db 622 TTAGACTTTTATGCTCTGCTGCTGCTCATATTGATGCTTACATCTACACTGGACCAAG 681  
 QY 84 AsnArgMetTrpArgLysAsnArgSerPheTyrAlaAsnAsnHisCysIleGlyThrAsp 103  
 Db 682 AACCGATTTTGGAGAAAGCTCGCTCCACCACTGATGATGATGATGATGATGATGATGAT 741  
 QY 104 LeuAsnArgAsnPheAlaSerLysHisTrpCysGluGluGlyAlaSerSerSerCys 123  
 Db 742 CCCAACAGAAATTTT---GATGCTGTGTGTGTGAATTTGAGAGCTCTCGAAACCCCTGT 798  
 QY 124 SerGluThrTyrCysGlyLeuTyrProGluSerGluProGluValLysAlaValAser 143  
 Db 799 GATGAACTTACTGTGAGCTCGCCGACGAGCTCTGAAAGAAACCAAGCCCTGCTGAT 858  
 QY 144 PheLeuArgArgAsnIleAsnGluIleLysAlaTyrIleSerMetHisSerTyrSerGln 163  
 Db 859 TTCATCGGCAACAACTCTCTCCATCAGGATATCTGACATCCATCCATCTGATCCCAA 918  
 QY 164 HisIleValPheProTyrSerTyrThrArgSerLysSerLysAspHisGluLeuSer 183  
 Db 919 ATGATGATCTACCTTACTCATATGCTTACAAACTCGGTGAGAACATCTGAGTTGAAT 978  
 QY 184 LeuValAlaSerGluAlaValArgAlaIleGluLysThrSerLysAsnThrArgTyrThr 203  
 Db 979 GCCCTGGCTAAAGCTACTGTGAAAGACTT---GCCCTACTGACGCGACGACAGTACACA 1035  
 QY 204 HisGlyHisGlySerGluThrLeuTyrLeuAlaProGlyGlyGlyAspAspTrpIleTyr 223  
 Db 1036 TATGGCCGGGAGGACTACAAACATCTATCTGCTGGGGGCTGTGACAGACTGGGCTTAT 1095  
 QY 224 AspleuGlyIleLysTyrSerPheThr 232  
 Db 1096 GACCAAGAAATCAGATATTCCTTCAAC 1122

Search completed: May 19, 2003, 06:23:15  
 Job time : 33.9746 secs

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